

Metrics:

Total lines of code: 208105
 Total lines skipped (#nosec): 0

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./Testing/simple_demo.py](#)
Line number: 71
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
70      # Verify it works
71      assert message == decrypted
72      print("\n\n Encryption/Decryption successful!")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./key_exchange.py](#)
Line number: 254
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
253      # Verify it worked
254      assert message == decrypted
255      print("\n\n Secure communication successful!")
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/_pytest_code/code.py](#)
Line number: 172
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
171      f_locals.update(vars)
172      return eval(code, self.f_globals, f_locals)
173
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest_code/code.py](#)
Line number: 230
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
229      source = self.frame.code.fullsource
230      assert source is not None
231      return source.getstatement(self.lineno)
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest_code/code.py](#)
Line number: 293
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```
292          tbh = maybe_ns_dct["__tracebackhide__"]
293          except Exception:
294              pass
295          else:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)
Line number: 492
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
491         """
492         assert (
493             exception.__traceback__
494         ), "Exceptions passed to ExcInfo.from_exception(...) must have a non-None __traceback__."
495         exc_info = (type(exception), exception, exception.__traceback__)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)
Line number: 531
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
530     tup = sys.exc_info()
531     assert tup[0] is not None, "no current exception"
532     assert tup[1] is not None, "no current exception"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)
Line number: 532
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
531     assert tup[0] is not None, "no current exception"
532     assert tup[1] is not None, "no current exception"
533     assert tup[2] is not None, "no current exception"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)
Line number: 533
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
532     assert tup[1] is not None, "no current exception"
533     assert tup[2] is not None, "no current exception"
534     exc_info = (tup[0], tup[1], tup[2])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)
Line number: 544
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
543     """Fill an unfilled ExceptionInfo created with ``forLater()``."""
544     assert self._excinfo is None, "ExceptionInfo was already filled"
545     self._excinfo = exc_info
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)
Line number: 550
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
549     """The exception class."""
550     assert (
551         self._excinfo is not None
552     ), ".type can only be used after the context manager exits"
553     return self._excinfo[0]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)

Line number: 558

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
557         """The exception value."""
558         assert (
559             self._excinfo is not None
560         ), ".value can only be used after the context manager exits"
561         return self._excinfo[1]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)

Line number: 566

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
565         """The exception raw traceback."""
566         assert (
567             self._excinfo is not None
568         ), ".tb can only be used after the context manager exits"
569         return self._excinfo[2]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)

Line number: 574

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
573         """The type name of the exception."""
574         assert (
575             self._excinfo is not None
576         ), ".typename can only be used after the context manager exits"
577         return self.type.__name__
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_code/code.py](#)

Line number: 714

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
713     msg += "\n Did you mean to `re.escape()` the regex?"
714     assert re.search(regexp, value), msg
715     # Return True to allow for "assert excinfo.match()".
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_code/source.py](#)

Line number: 207

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
206         end = block_finder.last + start
207     except Exception:
208         pass
209
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_io/terminalwriter.py](#)

Line number: 75

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
74         file = colorama.AnsiToWin32(file).stream
75         assert file is not None
76         self._file = file
```

blacklist: Consider possible security implications associated with pickle module.

Test ID: B403

Severity: LOW

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)

Line number: 399

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
398     try:
399         import pickle
400
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)

Line number: 842

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
841         target = target.join(self.basename)
842         assert self != target
843         copychunked(self, target)
```

blacklist: Consider possible security implications associated with pickle module.

Test ID: B403

Severity: LOW

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)

Line number: 877

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
876     f = self.open("wb")
877     import pickle
878
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)

Line number: 1126

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1125         modfile = mod.__file__
1126         assert modfile is not None
1127         if modfile[-4:] in (".pyc", ".pyo"):
```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)

Line number: 1155

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
1154         with open(str(self), "rb") as f:
1155             exec(f.read(), mod.__dict__)
1156     except BaseException:
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)**Line number:** 1166**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
1165     """
1166     from subprocess import Popen, PIPE
1167 
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)**Line number:** 1170**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
1169     popen_opts.pop("stderr", None)
1170     proc = Popen(
1171         [str(self)] + [str(arg) for arg in argv],
1172         **popen_opts,
1173         stdout=PIPE,
1174         stderr=PIPE,
1175     )
1176     stdout: str | bytes 
```

try_except_pass: Try, Except, Pass detected.**Test ID:** B110**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)**Line number:** 1404**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```
1403             raise
1404         except Exception: # this might be error.Error, WindowsError ...
1405             pass
1406         if is_garbage(path): 
```

try_except_pass: Try, Except, Pass detected.**Test ID:** B110**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/_py/path.py](#)**Line number:** 1411**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```
1410             raise
1411         except Exception: # this might be error.Error, WindowsError ...
1412             pass
1413 
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)**Line number:** 147**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
146     def exec_module(self, module: types.ModuleType) -> None:
147         assert module.__spec__ is not None
148         assert module.__spec__.origin is not None 
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)**Line number:** 148**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

147         assert module.__spec__ is not None
148         assert module.__spec__.origin is not None
149         fn = Path(module.__spec__.origin)

```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)

Line number: 186

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```

185             state.trace(f"found cached rewritten pyc for {fn}")
186             exec(co, module.__dict__)
187

```

blacklist: Deserialization with the marshal module is possibly dangerous.

Test ID: B302

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)

Line number: 404

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b302-marshal

```

403         try:
404             co = marshal.load(fp)
405         except Exception as e:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)

Line number: 564

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

563     nonlocal depth, lines, assert_lineno, seen_lines
564     assert assert_lineno is not None
565     ret[assert_lineno] = "".join(lines).rstrip().rstrip("\\\\")

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)

Line number: 758

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

757         continue
758         assert isinstance(node, ast.AST)
759         for name, field in ast.iter_fields(node):

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)

Line number: 858

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

857         """Handle expressions we don't have custom code for."""
858         assert isinstance(node, ast.expr)
859         res = self.assign(node)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/assertion/rewrite.py](#)

Line number: 875

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
874         # TODO: This assert should not be needed.
875         assert self.module_path is not None
876         warnings.warn_explicit(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/assertion/util.py](#)
Line number: 95
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
94             else:
95                 assert line[0] in ["~", ">"]
96                 stack[-1] += 1
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/assertion/util.py](#)
Line number: 99
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
98             result.append(" " * indent + line[1:])
99             assert len(stack) == 1
100            return result
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/assertion/util.py](#)
Line number: 463
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
462         else:
463             assert False
464
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 302
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
301             self.active = any(config.getoption(key) for key in active_keys)
302             assert config.cache
303             self.lastfailed: Dict[str, bool] = config.cache.get("cache/lastfailed", {})
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 402
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
401             assert config.cache is not None
402             saved_lastfailed = config.cache.get("cache/lastfailed", {})
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 414
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
413         self.active = config.option.newfirst
414         assert config.cache is not None
415         self.cached_nodeids = set(config.cache.get("cache/nodeids", []))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 450
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
449
450         assert config.cache is not None
451         config.cache.set("cache/nodeids", sorted(self.cached_nodeids))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 543
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
542     """
543     assert request.config.cache is not None
544     return request.config.cache
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 550
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
549     if config.option.verbose > 0 or config.getini("cache_dir") != ".pytest_cache":
550         assert config.cache is not None
551         cachedir = config.cache._cachedir
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/cacheprovider.py](#)
Line number: 566
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
565
566     assert config.cache is not None
567
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)
Line number: 182
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
181     def getvalue(self) -> str:
182         assert isinstance(self.buffer, io.BytesIO)
183         return self.buffer.getvalue().decode("UTF-8")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)
Line number: 369
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

368     def _assert_state(self, op: str, states: Tuple[str, ...]) -> None:
369         assert (
370             self._state in states
371         ), "cannot {} in state {!r}: expected one of {}".format(
372             op, self._state, ", ".join(states)
373         )
374

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)

Line number: 425

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

424         self._assert_state("snap", ("started", "suspended"))
425         assert isinstance(self.tmpfile, CaptureIO)
426         res = self.tmpfile.getvalue()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)

Line number: 489

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

488     def _assert_state(self, op: str, states: Tuple[str, ...]) -> None:
489         assert (
490             self._state in states
491         ), "cannot {} in state {!r}: expected one of {}".format(
492             op, self._state, ", ".join(states)
493         )
494

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)

Line number: 639

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

638         if out:
639             assert self.out is not None
640             self.out.writeorg(out)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)

Line number: 642

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

641         if err:
642             assert self.err is not None
643             self.err.writeorg(err)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)

Line number: 663

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
662         if self._in_suspended:
663             assert self.in_ is not None
664             self.in_.resume()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)
Line number: 749
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
748     def start_global_capturing(self) -> None:
749         assert self._global_capturing is None
750         self._global_capturing = _get_multicapture(self._method)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/capture.py](#)
Line number: 779
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
778     def read_global_capture(self) -> CaptureResult[str]:
779         assert self._global_capturing is not None
780         return self._global_capturing.readouterr()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/compat.py](#)
Line number: 435
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
434     def assert_never(value: NoReturn) -> NoReturn:
435         assert False, f"Unhandled value: {value} ({type(value).__name__})"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 355
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
354         # abuse typeguard from importlib to avoid massive method type union thots lacking a alias
355         assert inspect.isroutine(method)
356         known_marks: set[str] = {m.name for m in getattr(method, "pytestmark", [])}
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 433
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```
432             )
433         except Exception:
434             pass
435             self.trace.root.setwriter(err.write)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 643
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

642         except Exception as e:
643             assert e.__traceback__ is not None
644             exc_info = (type(e), e, e.__traceback__)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 654
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

653             if dirname in path.parents or path == dirname:
654                 assert mod not in mods
655                 mods.append(mod)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 766
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

765             # _pytest prefix.
766             assert isinstance(modname, str), (
767                 "module name as text required, got %r" % modname
768             )
769             if self.is_blocked(modname) or self.get_plugin(modname) is not None:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 1049
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1048     def _do_configure(self) -> None:
1049         assert not self._configured
1050         self._configured = True

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 1068
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1067         )
1068         assert terminalreporter is not None
1069         return terminalreporter._tw

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)
Line number: 1419
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1418         # Parse given cmdline arguments into this config object.
1419         assert (
1420             self.args == []
1421         ), "can only parse cmdline args at most once per Config object"
1422         self.hook.pytest_adhooks.call_historic(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)**Line number:** 1484**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1483         x = self.getini(name)
1484         assert isinstance(x, list)
1485         x.append(line) # modifies the cached list inline
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)**Line number:** 1540**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1539         # TODO: This assert is probably not valid in all cases.
1540         assert self.inipath is not None
1541         dp = self.inipath.parent
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)**Line number:** 1569**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1568         return None
1569         assert mod.__file__ is not None
1570         modpath = Path(mod.__file__).parent
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/config/_init_.py](#)**Line number:** 1663**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1662     try:
1663         assert False
1664     except AssertionError:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/config/argparsing.py](#)**Line number:** 208**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
207     """
208     assert type in (None, "string", "paths", "pathlist", "args", "linelist", "bool")
209     self._inidict[name] = (help, type, default)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/config/compat.py](#)**Line number:** 61**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
60         else:
61             assert fspath_value is not None
62             path_value = Path(fspath_value)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/config/findpaths.py](#)

Line number: 209

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
208             )
209         assert roottdir is not None
210         return roottdir, inipath, inicfg or {}
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/debugging.py](#)

Line number: 170

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
169             if cls._recursive_debug == 0:
170                 assert cls._config is not None
171                 tw = _pytest.config.create_terminal_writer(cls._config)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/debugging.py](#)

Line number: 185

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
184             )
185         assert capman is not None
186         capman.resume()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/debugging.py](#)

Line number: 189

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
188             tw.sep(">", "PDB continue")
189             assert cls._pluginmanager is not None
190             cls._pluginmanager.hook.pytest_leave_pdb(config=cls._config, pdb=self)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/debugging.py](#)

Line number: 296

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
295             sys.stdout.write(err)
296             assert call.excinfo is not None
297
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/debugging.py](#)

Line number: 382

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
381             else:
382                 assert excinfo._excinfo is not None
383                 return excinfo._excinfo[2]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/doctest.py](#)
Line number: 291
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
290     def runtest(self) -> None:
291         assert self.dtest is not None
292         assert self.runner is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/doctest.py](#)
Line number: 292
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
291     assert self.dtest is not None
292     assert self.runner is not None
293     _check_all_skipped(self.dtest)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/doctest.py](#)
Line number: 348
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
347     if lineno is not None:
348         assert failure.test.docstring is not None
349         lines = failure.test.docstring.splitlines(False)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/doctest.py](#)
Line number: 351
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
350         # add line numbers to the left of the error message
351         assert test.lineno is not None
352         lines = [
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/doctest.py](#)
Line number: 379
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
378     def reportinfo(self) -> Tuple[Union["os.PathLike[str]", str], Optional[int], str]:
379         assert self.dtest is not None
380         return self.path, self.dtest.lineno, "[doctest] %s" % self.name
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)
Line number: 173
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
172         for argname, argvalue in callspec.funcargs.items():
173             assert argname not in callspec.params
174             callspec.params[argname] = argvalue
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)
Line number: 196
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
195         if node is None:
196             assert scope is Scope.Class and isinstance(
197                 collector, _pytest.python.Module
198             )
199             # Use module-level collector for class-scope (for now).
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)
Line number: 242
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
241     the specified scope."""
242     assert scope is not Scope.Function
243     try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)
Line number: 453
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
452     node = self._pyfuncitem
453     assert node, 'Could not obtain a node for scope "{}" for function {!r}'.format(
454         scope, self._pyfuncitem
455     )
456     return node
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)
Line number: 464
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
463     # not known at parsing/collection time.
464     assert self._pyfuncitem.parent is not None
465     parentid = self._pyfuncitem.parent.nodeid
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)
Line number: 586
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
585     fixturedef = self._get_active_fixturedef(argname)
586     assert fixturedef.cached_result is not None, (
587         f'The fixture value for "{argname}" is not available. '
588         "This can happen when the fixture has already been torn down."
589     )
590     return fixturedef.cached_result[0]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)

Line number: 1048

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1047             # PseudoFixtureDef is only for "request".
1048             assert isinstance(fixturedef, FixtureDef)
1049             fixturedef.addfinalizer(functools.partial(self.finish, request=request))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)

Line number: 1066

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1065             self.finish(request)
1066             assert self.cached_result is None
1067
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)

Line number: 1115

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1114             fixdef = request._get_active_fixturedef(argname)
1115             assert fixdef.cached_result is not None
1116             result, arg_cache_key, exc = fixdef.cached_result
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)

Line number: 1126

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1125             exc_info = sys.exc_info()
1126             assert exc_info[0] is not None
1127             if isinstance(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)

Line number: 1632

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1631         else:
1632             assert isinstance(node_or_obj, nodes.Node)
1633             holderobj = cast(object, node_or_obj.obj) # type: ignore[attr-defined]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/fixtures.py](#)

Line number: 1634

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1633     holderobj = cast(object, node_or_obj.obj) # type: ignore[attr-defined]
1634     assert isinstance(node_or_obj.nodeid, str)
1635     nodeid = node_or_obj.nodeid
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/helpconfig.py](#)

Line number: 166

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
165     )
166     assert reporter is not None
167     tw = reporter._tw
```

blacklist: Using xml.etree.ElementTree to parse untrusted XML data is known to be vulnerable to XML attacks. Replace xml.etree.ElementTree with the equivalent defusedxml package, or make sure defusedxml.defuse_stdlib() is called.

Test ID: B405

Severity: LOW

Confidence: HIGH

CWE: [CWE-20](#)

File: [/venv/lib/python3.13/site-packages/_pytest/junitxml.py](#)

Line number: 13

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b405-import-xml-etree

```
12     import re
13     import xml.etree.ElementTree as ET
14     from datetime import datetime
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/junitxml.py](#)

Line number: 201

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
200         else:
201             assert report.longrepr is not None
202             reprcrash: Optional[ReprFileLocation] = getattr(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/junitxml.py](#)

Line number: 214

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
213         # msg = str(report.longrepr.reprtraceback.extraline)
214         assert report.longrepr is not None
215         self._add_simple("error", "collection failure", str(report.longrepr))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/junitxml.py](#)

Line number: 221

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
220     def append_error(self, report: TestReport) -> None:
221         assert report.longrepr is not None
222         reprcrash: Optional[ReprFileLocation] = getattr(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/junitxml.py](#)

Line number: 245**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
244         else:
245             assert isinstance(report.longrepr, tuple)
246             filename, lineno, skipreason = report.longrepr
```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/legacypath.py](#)**Line number:** 4**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
3     import shlex
4     import subprocess
5     from pathlib import Path
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/legacypath.py](#)**Line number:** 401**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
400         # TODO: This assert is probably not valid in all cases.
401         assert self.inipath is not None
402         dp = self.inipath.parent
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/logging.py](#)**Line number:** 116**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
115
116         assert self._fmt is not None
117        levelname_fmt_match = self.LEVELNAME_FMT_REGEX.search(self._fmt)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/logging.py](#)**Line number:** 664**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
663
664         # Guaranteed by `log_cli_enabled()` .
665         assert terminal_reporter is not None
666         capture_manager = config.pluginmanager.get_plugin("capturemanager")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/main.py](#)**Line number:** 583**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
582     ) -> Sequence[nodes.Collector]:
583         assert (
584             fspath.is_file()
585             , "{!r} is not a file (isdir={!r}, exists={!r}, islink={!r})".format(
586                 fspath, fspath.is_dir(), fspath.exists(), fspath.is_symlink()
587             )
588         )
589         ihook = self.gethookproxy(fspath)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/main.py](#)

Line number: 726

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
725             if argpath.is_dir():
726                 assert not names, f"invalid arg {argpath, names)!r}"
727
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/main.py](#)

Line number: 757

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
756         else:
757             assert argpath.is_file()
758
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/main.py](#)

Line number: 841

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
840     else:
841         assert isinstance(node, nodes.Collector)
842         rep = collect_one_node(node)
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/_pytest/mark/expression.py](#)

Line number: 227

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
226     """
227     ret: bool = eval(self.code, {"__builtins__": {}}, MatcherAdapter(matcher))
228     return ret
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/mark/structures.py](#)

Line number: 89

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
88     else:
89         assert isinstance(marks, collections.abc.Collection)
90
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/mark/structures.py](#)

Line number: 242

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
241     """
242         assert self.name == other.name
243
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/mark/structures.py](#)
Line number: 416
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
415     """
416         assert isinstance(mark, Mark), mark
417         # Always reassign name to avoid updating pytestmark in a reference that
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 122
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
121     else:
122         assert fspath is not None
123         return Path(fspath)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 235
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
234         if nodeid is not None:
235             assert "::()" not in nodeid
236             self._nodeid = nodeid
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 303
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
302             path, lineno = get_fslocation_from_item(self)
303             assert lineno is not None
304             warnings.warn_explicit(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 434
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
433             current = current.parent
434             assert current is None or isinstance(current, cls)
435             return current
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 598
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

597         if isinstance(path_or_parent, Node):
598             assert parent is None
599             parent = cast(FSCollector, path_or_parent)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 601
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

600             elif isinstance(path_or_parent, Path):
601                 assert path is None
602                 path = path_or_parent

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 618
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

617             if session is None:
618                 assert parent is not None
619                 session = parent.session

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/nodes.py](#)
Line number: 782
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

781             relfspath = self.session._node_location_to_relpah(path)
782             assert type(location[2]) is str
783             return (relfspath, location[1], location[2])

```

blacklist: Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Test ID: B310
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-22](#)
File: [/venv/lib/python3.13/site-packages/_pytest/pastebin.py](#)
Line number: 83
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b310-urllib-urlopen

```

82             response: str = (
83                 urlopen(url, data=urlencode(params).encode("ascii")).read().decode("utf-8")
84             )

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/pastebin.py](#)
Line number: 108
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

107             s = file.getvalue()
108             assert len(s)
109             pastebinurl = create_new_paste(s)

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/pathlib.py](#)
Line number: 224
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

223         current_symlink.symlink_to(link_to)
224     except Exception:
225         pass
226

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/pathlib.py](#)

Line number: 237

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

236             new_path.mkdir(mode=mode)
237         except Exception:
238             pass
239         else:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/pathlib.py](#)

Line number: 407

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

406         return p
407     assert e is not None
408     raise e

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/pathlib.py](#)

Line number: 758

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

757     """
758     assert isinstance(directory, Path)
759     assert isinstance(dest, Path)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/pathlib.py](#)

Line number: 759

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

758     assert isinstance(directory, Path)
759     assert isinstance(dest, Path)
760     if dest == directory:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/_pytest/pathlib.py](#)

Line number: 783

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

782     """Recursively copy a source directory to target."""
783     assert source.is_dir()
784     for entry in visit(source, recurse=lambda entry: not entry.is_symlink()):

```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 14**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
13     import shutil
14     import subprocess
15     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)**Line number:** 127**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
126         def get_open_files(self) -> List[Tuple[str, str]]:
127             out = subprocess.run(
128                 ("lsof", "-Ffn0", "-p", str(os.getpid())),
129                 stdout=subprocess.PIPE,
130                 stderr=subprocess.DEVNULL,
131                 check=True,
132                 text=True,
133                 encoding=locale.getpreferredencoding(False),
134             ).stdout
135
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)**Line number:** 160**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
159         try:
160             subprocess.run(("lsof", "-v"), check=True)
161         except (OSErr, subprocess.CalledProcessError):
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.**Test ID:** B307**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)**Line number:** 292**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
291                     print("NAMEMATCH", name, call)
292                     if eval(check, backlocals, call.__dict__):
293                         print("CHECKERMATCH", repr(check), ">", call)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)**Line number:** 315**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
314             values = self.getcalls(name)
315             assert len(values) == 1, (name, values)
316             return values[0]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)**Line number:** 436**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
435                 if rep.when == "call":
436                     assert isinstance(rep, TestReport)
```

437

passed.append(rep)

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 441

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

440

```
        else:
            assert rep.failed, f"Unexpected outcome: {rep!r}"
            failed.append(rep)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 797

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

796

```
        ret = p
        assert ret is not None
        return ret
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 956

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
955         for extra_element in self._request.node.iter_markers("pytester_example_path"):
956             assert extra_element.args
957             example_dir = example_dir.joinpath(*extra_element.args)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 1001

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

1000

```
1001         session = Session.from_config(config)
1002         assert ":" not in str(arg)
1003         p = Path(os.path.abspath(arg))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 1195

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

1194

```
1195         assert reprec.ret is not None
1196         res = RunResult(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)

Line number: 1280

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

1279

```
1280         return item
1281         assert 0, "{!r} item not found in module:\n{}\\nitems: {}".format(
```

```
1281             funcname, source, items
1282         )
1283
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)
Line number: 1318
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1317             path = self.path.joinpath(source)
1318         assert not withinit, "not supported for paths"
1319     else:
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.
Test ID: B603
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)
Line number: 1373
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
1372
1373     popen = subprocess.Popen(cmdargs, stdout=stdout, stderr=stderr, **kw)
1374     if stdin is self.CLOSE_STDIN:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)
Line number: 1375
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1374     if stdin is self.CLOSE_STDIN:
1375         assert popen.stdin is not None
1376         popen.stdin.close()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/pytester.py](#)
Line number: 1378
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1377     elif isinstance(stdin, bytes):
1378         assert popen.stdin is not None
1379         popen.stdin.write(stdin)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/_pytester_assertions.py](#)
Line number: 35
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
34     expected = {"passed": passed, "skipped": skipped, "failed": failed}
35     assert obtained == expected, outcomes
36
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/_pytester_assertions.py](#)
Line number: 75
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
74         expected["deselected"] = deselected
75         assert obtained == expected
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 239

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
238     ) -> Union[None, nodes.Item, nodes.Collector, List[Union[nodes.Item, nodes.Collector]]]:
239         assert isinstance(collector, (Class, Module)), type(collector)
240         # Nothing was collected elsewhere, let's do it here.
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 327

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
326             # TODO: Improve the type of `parent` such that assert/ignore aren't needed.
327             assert self.parent is not None
328             obj = self.parent.obj # type: ignore[attr-defined]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 355

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
354             file_path = sys.modules[obj.__module__].__file__
355             assert file_path is not None
356             if file_path.endswith(".pyc"):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 363

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
362             modpath = self.getmodpath()
363             assert isinstance(lineno, int)
364             return path, lineno, modpath
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 475

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
474             modulecol = self.getparent(Module)
475             assert modulecol is not None
476             module = modulecol.obj
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 717

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

716     ) -> Sequence[nodes.Collector]:
717         assert (
718             fspath.is_file()
719         ), "{!r} is not a file (isdir={!r}, exists={!r}, islink={!r})".format(
720             fspath, fspath.is_dir(), fspath.exists(), fspath.is_symlink()
721         )
722         ihook = self.session.gethookproxy(fspath)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 808

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

807         if hasinit(self.obj):
808             assert self.parent is not None
809             self.warn(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 818

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

817         elif hasnew(self.obj):
818             assert self.parent is not None
819             self.warn(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 1603

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1602         for _, fixturedefs in sorted(info.name2fixturedefs.items()):
1603             assert fixturedefs is not None
1604             if not fixturedefs:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 1633

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1632         for argname, fixturedefs in fm._arg2fixturedefs.items():
1633             assert fixturedefs is not None
1634             if not fixturedefs:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/python.py](#)

Line number: 1777

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1776         def _getobj(self):
1777             assert self.parent is not None
1778             if isinstance(self.parent, Class):

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/python_api.py](#)**Line number:** 988**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
987         fail(self.message)
988         assert self.excinfo is not None
989         if not issubclass(exc_type, self.expected_exception):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/recwarn.py](#)**Line number:** 227**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
226         # record=True means it's None.
227         assert _list is not None
228         self._list = _list
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/reports.py](#)**Line number:** 327**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
326         # Remove "collect" from the Literal type -- only for collection calls.
327         assert when != "collect"
328         duration = call.duration
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/reports.py](#)**Line number:** 350**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
349             r = excinfo._getreprcrash()
350             assert (
351                 r is not None
352             ), "There should always be a traceback entry for skipping a test."
353             if excinfo.value._use_item_location:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/reports.py](#)**Line number:** 355**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
354             path, line = item.reportinfo()[:2]
355             assert line is not None
356             longrepr = os.fspath(path), line + 1, r.message
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/_pytest/reports.py](#)**Line number:** 463**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
462             return CollectReport._from_json(data)
463             assert False, "Unknown report_type unserialise data: {}".format(
464                 data["$report_type"])
```

```
465         )
466     return None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/reports.py](#)
Line number: 502
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
501     def serialize_exception_longrepr(rep: BaseReport) -> Dict[str, Any]:
502         assert rep.longrepr is not None
503         # TODO: Investigate whether the duck typing is really necessary here.
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 174
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
173     sys.last_value = e
174     assert e.__traceback__ is not None
175     # Skip *this* frame
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 257
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
256     else:
257         assert False, f"Unhandled runtest hook case: {when}"
258     reraise: Tuple[Type[BaseException], ...] = (Exit,)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 385
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
384     r_ = collector._repr_failure_py(call.excinfo, "line")
385     assert isinstance(r_, ExceptionChainRepr), repr(r_)
386     r = r_.reprcrash
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 387
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
386     r = r_.reprcrash
387     assert r
388     longrepr = (str(r.path), r.lineno, r.message)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 393
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
392             if not hasattr(errorinfo, "toterminal"):
393                 assert isinstance(errorinfo, str)
394                 errorinfo = CollectErrorRepr(errorinfo)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 485
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
484         for col, (finalizers, exc) in self.stack.items():
485             assert col in needed_collectors, "previous item was not torn down properly"
486             if exc:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 490
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
489         for col in needed_collectors[len(self.stack) :]:
490             assert col not in self.stack
491             # Push onto the stack.
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 504
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
503         """
504         assert node and not isinstance(node, tuple)
505         assert callable(finalizer)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 505
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
504         assert node and not isinstance(node, tuple)
505         assert callable(finalizer)
506         assert node in self.stack, (node, self.stack)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 506
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
505         assert callable(finalizer)
506         assert node in self.stack, (node, self.stack)
507         self.stack[node][0].append(finalizer)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/runner.py](#)
Line number: 541
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
540         if nextitem is None:
541             assert not self.stack
542
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/_pytest/skipping.py](#)

Line number: 116

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
115         condition_code = compile(condition, filename, "eval")
116         result = eval(condition_code, globals_)
117     except SyntaxError as exc:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/skipping.py](#)

Line number: 271

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
270     elif call.excinfo and isinstance(call.excinfo.value, xfail.Exception):
271         assert call.excinfo.value.msg is not None
272         rep.wasxfail = "reason: " + call.excinfo.value.msg
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/stepwise.py](#)

Line number: 50

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
49     if not session.config.getoption("stepwise"):
50         assert session.config.cache is not None
51         if hasattr(session.config, "workerinput"):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/stepwise.py](#)

Line number: 64

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
63         self.report_status = ""
64         assert config.cache is not None
65         self.cache: Cache = config.cache
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/stepwise.py](#)

Line number: 108

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
107         self.lastfailed = report.nodeid
108         assert self.session is not None
109         self.session.shouldstop = (
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 639

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
638     def _is_last_item(self) -> bool:
639         assert self._session is not None
640         return len(self._progress_nodeids_reported) == self._session.testscollected
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 643

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
642     def pytest_runtest_logfinish(self, nodeid: str) -> None:
643         assert self._session
644         if self.verbosity <= 0 and self._show_progress_info:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 664

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
663     def _get_progress_information_message(self) -> str:
664         assert self._session
665         collected = self._session.testscollected
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 899

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
898     excrepr = self._keyboardinterrupt_memo
899     assert excrepr is not None
900     assert excrepr.reprcrash is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 900

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
899     assert excrepr is not None
900     assert excrepr.reprcrash is not None
901     msg = excrepr.reprcrash.message
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1217

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1216     self._set_main_color()
1217     assert self._main_color
1218     assert self._known_types
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1218

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1217         assert self._main_color
1218         assert self._known_types
1219     return self._main_color, self._known_types

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1393

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1392     for event in skipped:
1393         assert event.longrepr is not None
1394         assert isinstance(event.longrepr, tuple), (event, event.longrepr)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1394

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1393         assert event.longrepr is not None
1394         assert isinstance(event.longrepr, tuple), (event, event.longrepr)
1395         assert len(event.longrepr) == 3, (event, event.longrepr)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1395

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1394         assert isinstance(event.longrepr, tuple), (event, event.longrepr)
1395         assert len(event.longrepr) == 3, (event, event.longrepr)
1396         fspath, lineno, reason = event.longrepr

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1474

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1473     else:
1474         assert report.skipped
1475         assert isinstance(report.longrepr, tuple)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/terminal.py](#)

Line number: 1475

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1474         assert report.skipped
1475         assert isinstance(report.longrepr, tuple)
1476         _, _, reason = report.longrepr

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/_pytest/threadexception.py](#)

Line number: 54

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
53         ) -> None:
54             assert self._old_hook is not None
55             threading.excepthook = self._old_hook
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/tmpdir.py](#)
Line number: 198
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
197         )
198     assert basetemp is not None, basetemp
199     self._basetemp = basetemp
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/unittest.py](#)
Line number: 189
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
188     def _getobj(self):
189         assert self.parent is not None
190         # Unlike a regular Function in a Class, where `item.obj` returns
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/unittest.py](#)
Line number: 200
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
199         self._explicit_teardown: Optional[Callable[[], None]] = None
200         assert self.parent is not None
201         self._ testcase = self.parent.obj(self.name) # type: ignore[attr-defined]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/unittest.py](#)
Line number: 307
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
306
307     assert self._ testcase is not None
308
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/unittest.py](#)
Line number: 323
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
322     # We need to consider if the test itself is skipped, or the whole class.
323     assert isinstance(self.parent, UnitTestCase)
324     skipped = _is_skipped(self.obj) or _is_skipped(self.parent.obj)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/unraisableexception.py](#)
Line number: 56
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

55         ) -> None:
56             assert self._old_hook is not None
57             sys.unraisablehook = self._old_hook

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/_pytest/warnings.py](#)
Line number: 45
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

44             # mypy can't infer that record=True means log is not None; help it.
45             assert log is not None
46

```

exec_used: Use of exec detected.

Test ID: B102
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/aioconsole/apython.py](#)
Line number: 42
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```

41                 locals_dict["__file__"] = filename
42                 exec(startupcode, globals(), locals_dict)
43             except Exception: # pragma: no cover

```

exec_used: Use of exec detected.

Test ID: B102
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/aioconsole/execute.py](#)
Line number: 73
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```

72             # Check the coroutine function
73             exec(compile(tree, filename, "single"))
74

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/aioconsole/execute.py](#)
Line number: 79
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

78             return ast.Interactive([tree])
79             assert mode == "eval"
80             raise ValueError("Mode 'eval' is not supported")

```

exec_used: Use of exec detected.

Test ID: B102
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/aioconsole/execute.py](#)
Line number: 88
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```

87             tree.body[0].args.args = list(map(make_arg, local))
88             exec(compile(tree, filename, "single"), dct)
89             return dct[CORO_NAME](**local)

```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/aioconsole/rwrap.py](#)
Line number: 7
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```

6     import builtins
7     import subprocess
8     from concurrent.futures import ThreadPoolExecutor

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/aioconsole/rwrap.py](#)

Line number: 17

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

16     def rwrap_process(args, prompt_control, use_stderr=False):
17         assert len(prompt_control) == 1
18         # Start process

```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/aioconsole/rwrap.py](#)

Line number: 19

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```

18     # Start process
19     process = subprocess.Popen(
20         args,
21         bufsize=0,
22         universal_newlines=True,
23         stdin=subprocess.PIPE,
24         **{"stderr" if use_stderr else "stdout": subprocess.PIPE},
25     )
26     # Readline wrapping

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/aioconsole/rwrap.py](#)

Line number: 36

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

35     # Check prompt control
36     assert len(prompt_control) == 1
37

```

hardcoded_sql_expressions: Possible SQL injection vector through string-based query construction.

Test ID: B608

Severity: MEDIUM

Confidence: MEDIUM

CWE: [CWE-89](#)

File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/perf.py](#)

Line number: 160

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b608_hardcoded_sql_expressions.html

```

159             for i in range(100):
160                 await db.execute("insert into perf (k) values (%d)" % (i,))
161                 await db.commit()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/perf.py](#)

Line number: 166

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

165             cursor = await db.execute("select i, k from perf")
166             assert len(await cursor.fetchall()) == 100
167

```

hardcoded_sql_expressions: Possible SQL injection vector through string-based query construction.

Test ID: B608
Severity: MEDIUM
Confidence: MEDIUM
CWE: [CWE-89](#)
File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/perf.py](#).
Line number: 173
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b608_hardcoded_sql_expressions.html

```
172         for i in range(100):
173             await db.execute("insert into perf (k) values (%d)" % (i,))
174             await db.commit()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/perf.py](#).
Line number: 178
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
177         yield
178     assert len(await db.execute_fetchall("select i, k from perf")) == 100
179
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/smoke.py](#).
Line number: 97
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
96
97     assert len(rows) == 10
98
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/smoke.py](#).
Line number: 119
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
118
119     assert len(rows) == 10
120
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/smoke.py](#).
Line number: 138
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
137
138     assert len(rows) == 10
139
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/aiosqlite/tests/smoke.py](#).
Line number: 192
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
191         assert len(rows) == 10
192
193
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/aiosqlite/tests/smoke.py](#)
Line number: 292
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
291             except OperationalError as e:
292                 assert "not authorized" not in e.args
293             except AttributeError as e:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/_init_.py](#)
Line number: 598
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
597     else:
598         assert root is not None # root is only None if code is not None
599         try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/_init_.py](#)
Line number: 1393
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1392             orig_name = child.children[0]
1393             assert isinstance(orig_name, Leaf), "Invalid syntax parsing imports"
1394             assert orig_name.type == token.NAME, "Invalid syntax parsing imports"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/_init_.py](#)
Line number: 1394
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1393             assert isinstance(orig_name, Leaf), "Invalid syntax parsing imports"
1394             assert orig_name.type == token.NAME, "Invalid syntax parsing imports"
1395             yield orig_name.value
```

blacklist: Consider possible security implications associated with pickle module.
Test ID: B403
Severity: LOW
Confidence: HIGH
CWE: [CWE-502](#)
File: [/venv/lib/python3.13/site-packages/black/cache.py](#)
Line number: 5
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
4     import os
5     import pickle
6     import sys
```

blacklist: Pickle and modules that wrap it can be unsafe when used to deserialize untrusted data, possible security issue.
Test ID: B301
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-502](#)
File: [/venv/lib/python3.13/site-packages/black/cache.py](#)
Line number: 72
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b301-pickle

```
71     try:
72         data: Dict[str, Tuple[float, int, str]] = pickle.load(fobj)
73         file_data = {k: FileData(*v) for k, v in data.items()}
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/comments.py](#)
Line number: 200
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
199     first_idx = index
200     assert parent is not None, "INTERNAL ERROR: fmt: on/off handling (1)"
201     assert first_idx is not None, "INTERNAL ERROR: fmt: on/off handling (2)"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/comments.py](#)
Line number: 201
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
200     assert parent is not None, "INTERNAL ERROR: fmt: on/off handling (1)"
201     assert first_idx is not None, "INTERNAL ERROR: fmt: on/off handling (2)"
202     parent.insert_child()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/files.py](#)
Line number: 327
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
326
327     assert root.is_absolute(), f"INTERNAL ERROR: `root` must be absolute but is {root}"
328     for child in paths:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/handle_ipynb_magics.py](#)
Line number: 177
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
176     """
177     assert magic
178     nbytes = max(len(magic) // 2 - 1, 1)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/handle_ipynb_magics.py](#)
Line number: 303
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
302     for arg in args:
303         assert isinstance(arg, ast.Str)
304         str_args.append(arg.s)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/linegen.py](#)
Line number: 414
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
413         if Preview.parenthesize_long_type_hints in self.mode:
414             assert len(node.children) == 3
415             if maybe_make_parens_invisible_in_atom(node.children[2], parent=node):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/linegen.py](#)
Line number: 1342
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1341     if is_lpar_token(child):
1342         assert is_rpar_token(parent.children[-1])
1343         # make parentheses invisible
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/lines.py](#)
Line number: 618
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
617     if previous_def is not None:
618         assert self.previous_line is not None
619         if self.mode.is_pyi:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/lines.py](#)
Line number: 1019
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1018
1019     assert len(line.leaves) >= 2, "Stranded delimiter"
1020
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/nodes.py](#)
Line number: 193
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
192
193     assert p is not None, f"INTERNAL ERROR: hand-made leaf without parent: {leaf!r}"
194     if t == token.COLON and p.type not in {
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/nodes.py](#)
Line number: 343
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
342     if not prev:
343         assert p.parent is not None, "subscripts are always parented"
344         if p.parent.type == syms.subscriptlist:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/nodes.py](#)
Line number: 375
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

374         prevp_parent = prevp.parent
375         assert prevp_parent is not None
376         if prevp.type == token.COLON and prevp_parent.type in {

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/parsing.py](#)
Line number: 87
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

86             # Choose the latest version when raising the actual parsing error.
87             assert len(errors) >= 1
88             exc = errors[max(errors)]

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/ranges.py](#)
Line number: 190
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

189         return
190         assert (
191             newline_leaf.type == NEWLINE
192             ), f"Unexpectedly found leaf.type={newline_leaf.type}"
193             # We need to find the furthest ancestor with the NEWLINE as the last

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/strings.py](#)
Line number: 135
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

134         assert (
135             0 <= quote_idx < len(string) - 1
136             ), f"{string!r} is missing a starting quote character (' or \")."
137             assert string[-1] in (

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/strings.py](#)
Line number: 138
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

137             ), f"{string!r} is missing a starting quote character (' or \")."
138             assert string[-1] in (
139                 """",
140                 """",
141                 ), f"{string!r} is missing an ending quote character (' or \")."
142                 assert set(string[:quote_idx]).issubset(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/black/strings.py](#)
Line number: 142
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

141             ), f"{string!r} is missing an ending quote character (' or \")."
142             assert set(string[:quote_idx]).issubset(
143                 set(STRING_PREFIX_CHARS)

```

```
144     ), f"{{set(string[:quote_idx])}} is NOT a subset of {{set(STRING_PREFIX_CHARS)}}."
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/strings.py](#)
Line number: 150
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
149     match = STRING_PREFIX_RE.match(s)
150     assert match is not None, f"failed to match string {s!r}"
151     orig_prefix = match.group(1)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/strings.py](#)
Line number: 271
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
270     else:
271         assert groups["N"], f"Unexpected match: {m}"
272         # \N{}
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/trans.py](#)
Line number: 682
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
681     mark_idx = temp_string.find(BREAK_MARK)
682     assert (
683         mark_idx >= 0
684     ), "Logic error while filling the custom string breakpoint cache."
685
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/trans.py](#)
Line number: 1037
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1036     string_indices = match_result.ok()
1037     assert len(string_indices) == 1, (
1038         f"{self.__class__.__name__} should only find one match at a time, found"
1039         f" {len(string_indices)}"
1040     )
1041     string_idx = string_indices[0]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/black/trans.py](#)
Line number: 1235
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1234     parent = LL[0].parent
1235     assert parent is not None # For type checkers.
1236     prev_sibling = parent.prev_sibling
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/black/trans.py](#)**Line number:** 1419**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1418         LL = line.leaves
1419         assert len(string_indices) == 1, (
1420             f"{self.__class__._name_} should only find one match at a time, found"
1421             f" {len(string_indices)}"
1422         )
1423         string_idx = string_indices[0]

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/black/trans.py](#)**Line number:** 1726**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1725
1726     assert is_valid_index(max_break_idx)
1727     assert_is_leaf_string(string)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/black/trans.py](#)**Line number:** 2101**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

2100         LL = line.leaves
2101         assert len(string_indices) == 1, (
2102             f"{self.__class__._name_} should only find one match at a time, found"
2103             f" {len(string_indices)}"
2104         )
2105         string_idx = string_indices[0]

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/black/trans.py](#)**Line number:** 2172**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

2171         if old_parens_exist:
2172             assert right_leaves and right_leaves[-1].type == token.RPAR, (
2173                 "Apparently, old parentheses do NOT exist?!"
2174                 f" (left_leaves={left_leaves}, right_leaves={right_leaves})"
2175             )
2176             old_rpar_leaf = right_leaves.pop()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/black/trans.py](#)**Line number:** 2305**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

2304         """
2305         assert leaves[string_idx].type == token.STRING
2306

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/black/trans.py](#)

Line number: 2416**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

2415

2416 assert string_parent is not None
2417 assert string_child_idx is not None**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/black/trans.py](#)**Line number:** 2417**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

2416

2417 assert string_parent is not None
2418 assert string_child_idx is not None**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 79**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

78

79 number = int(number)
80 assert symbol not in self.symbol2number
81 assert number not in self.number2symbol**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 80**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

79

80 assert symbol not in self.symbol2number
81 assert number not in self.number2symbol
81 self.symbol2number[symbol] = number**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 123**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

122

123 lineno, line = lineno + 1, next(f)
124 assert line == '#include "pgenheaders.h"\n', (lineno, line)**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 125**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

124

125 lineno, line = lineno + 1, next(f)
126 assert line == '#include "grammar.h"\n', (lineno, line)**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 134

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
133             mo = re.match(r"static arc arcs_(\d+)_(\d+)\[(\d+)\] = {$", line)
134             assert mo, (lineno, line)
135             n, m, k = list(map(int, mo.groups()))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 140

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
139             mo = re.match(r"\s+{\d+}, (\d+}\$, line)
140             assert mo, (lineno, line)
141             i, j = list(map(int, mo.groups()))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 144

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
143             lineno, line = lineno + 1, next(f)
144             assert line == "};\n", (lineno, line)
145             allarcs[(n, m)] = arcs
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 148

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
147             mo = re.match(r"static state states_(\d+)\[(\d+)\] = {$", line)
148             assert mo, (lineno, line)
149             s, t = list(map(int, mo.groups()))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 150

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
149             s, t = list(map(int, mo.groups()))
150             assert s == len(states), (lineno, line)
151             state = []
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 155

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
154             mo = re.match(r"\s+{\d+, arcs_(\d+)_(\d+}\$, line)
155             assert mo, (lineno, line)
156             k, n, m = list(map(int, mo.groups()))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 158**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
157             arcs = allarcs[n, m]
158             assert k == len(arcs), (lineno, line)
159             state.append(arcs)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 162**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
161             lineno, line = lineno + 1, next(f)
162             assert line == "};\n", (lineno, line)
163             lineno, line = lineno + 1, next(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 169**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
168             mo = re.match(r"static dfa dfas\[(\d+)\] = {$", line)
169             assert mo, (lineno, line)
170             ndfas = int(mo.group(1))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 174**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
173             mo = re.match(r'\s+{(\d+)', "(\\w+)", (\d+), (\d+), states_(\d+)$", line)
174             assert mo, (lineno, line)
175             symbol = mo.group(2)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 177**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
176             number, x, y, z = list(map(int, mo.group(1, 3, 4, 5)))
177             assert self.symbol2number[symbol] == number, (lineno, line)
178             assert self.number2symbol[number] == symbol, (lineno, line)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 178**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
177             assert self.symbol2number[symbol] == number, (lineno, line)
178             assert self.number2symbol[number] == symbol, (lineno, line)
179             assert x == 0, (lineno, line)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 179**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
178         assert self.number2symbol[number] == symbol, (lineno, line)
179         assert x == 0, (lineno, line)
180         state = states[z]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 181**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
180         state = states[z]
181         assert y == len(state), (lineno, line)
182         lineno, line = lineno + 1, next(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 184**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
183         mo = re.match(r'\s+("(?:\\\\d\\d\\d)*")\}', '$', line)
184         assert mo, (lineno, line)
185         first = {}
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.**Test ID:** B307**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 186**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval](#)

```
185         first = {}
186         rawbitset = eval(mo.group(1))
187         for i, c in enumerate(rawbitset):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 194**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
193         lineno, line = lineno + 1, next(f)
194         assert line == "}\n", (lineno, line)
195         self.dfas = dfas
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)**Line number:** 201**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
200         mo = re.match(r"static label labels\[\\d+\\] = {$", line)
201         assert mo, (lineno, line)
202         nlables = int(mo.group(1))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 206

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
205             mo = re.match(r'\s+{(\d+), (0|"\w+")}', $', line)
206             assert mo, (lineno, line)
207             x, y = mo.groups()
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 212

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval](#)

```
211         else:
212             y = eval(y)
213             labels.append((x, y))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 215

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
214     lineno, line = lineno + 1, next(f)
215     assert line == "};\n", (lineno, line)
216     self.labels = labels
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 220

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
219     lineno, line = lineno + 1, next(f)
220     assert line == "grammar _PyParser_Grammar = {\n", (lineno, line)
221     lineno, line = lineno + 1, next(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 223

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
222     mo = re.match(r'\s+(\d+)', line)
223     assert mo, (lineno, line)
224     ndfas = int(mo.group(1))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)

Line number: 225

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
224     ndfas = int(mo.group(1))
225     assert ndfas == len(self.dfas)
226     lineno, line = lineno + 1, next(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 227
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
226         lineno, line = lineno + 1, next(f)
227         assert line == "\tdfas,\n", (lineno, line)
228         lineno, line = lineno + 1, next(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 230
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
229         mo = re.match(r"\s+{(\d+), labels}, $", line)
230         assert mo, (lineno, line)
231         nlables = int(mo.group(1))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 232
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
231         nlables = int(mo.group(1))
232         assert nlables == len(self.labels), (lineno, line)
233         lineno, line = lineno + 1, next(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 235
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
234         mo = re.match(r"\s+{(\d+)$", line)
235         assert mo, (lineno, line)
236         start = int(mo.group(1))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 237
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
236         start = int(mo.group(1))
237         assert start in self.number2symbol, (lineno, line)
238         self.start = start
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 240
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

239         lineno, line = lineno + 1, next(f)
240         assert line == "};\n", (lineno, line)
241     try:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/conv.py](#)
Line number: 246
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

245             else:
246                 assert 0, (lineno, line)
247

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/driver.py](#)
Line number: 85
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

84         for release_range in self._release_ranges:
85             assert release_range.end is not None
86

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/driver.py](#)
Line number: 131
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

130         if start != (lineno, column):
131             assert (lineno, column) <= start, ((lineno, column), start)
132             s_lineno, s_column = start

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/driver.py](#)
Line number: 150
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

149         if debug:
150             assert type is not None
151             self.logger.debug(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/driver.py](#)
Line number: 175
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

174             # We never broke out -- EOF is too soon (how can this happen??)
175             assert start is not None
176             raise parse.ParseError("incomplete input", type, value, (prefix, start))

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/driver.py](#)
Line number: 177
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

176         raise parse.ParseError("incomplete input", type, value, (prefix, start))
177         assert p.rootnode is not None
178         return p.rootnode

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/driver.py](#)
Line number: 294
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

293     data = pkgutil.get_data(package, pickled_name)
294     assert data is not None
295     g = grammar.Grammar()

```

blacklist: Consider possible security implications associated with pickle module.

Test ID: B403
Severity: LOW
Confidence: HIGH
CWE: [CWE-502](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/grammar.py](#)
Line number: 17
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```

16     import os
17     import pickle
18     import tempfile

```

blacklist: Pickle and modules that wrap it can be unsafe when used to deserialize untrusted data, possible security issue.

Test ID: B301
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-502](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/grammar.py](#)
Line number: 124
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b301-pickle

```

123         with open(filename, "rb") as f:
124             d = pickle.load(f)
125             self._update(d)

```

blacklist: Pickle and modules that wrap it can be unsafe when used to deserialize untrusted data, possible security issue.

Test ID: B301
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-502](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/grammar.py](#)
Line number: 129
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b301-pickle

```

128         """Load the grammar tables from a pickle bytes object."""
129         self._update(pickle.loads(pk1))
130

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/literals.py](#)
Line number: 25
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

24     all, tail = m.group(0, 1)
25     assert all.startswith("\\")
26     esc = simple_escapes.get(tail)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/literals.py](#)
Line number: 46
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
45     def evalString(s: str) -> str:
46         assert s.startswith('') or s.startswith("'), repr(s[:1])
47         q = s[0]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/literals.py](#)
Line number: 50
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
49             q = q * 3
50         assert s.endswith(q), repr(s[-len(q) :])
51         assert len(s) >= 2 * len(q)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/literals.py](#)
Line number: 51
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
50         assert s.endswith(q), repr(s[-len(q) :])
51         assert len(s) >= 2 * len(q)
52         s = s[len(q) : -len(q)]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/parse.py](#)
Line number: 44
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
43     def lam_sub(grammar: Grammar, node: RawNode) -> NL:
44         assert node[3] is not None
45         return Node(type=node[0], children=node[3], context=node[2])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/parse.py](#)
Line number: 246
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
245         ilabels = self.classify(type, value, context)
246         assert len(ilabels) >= 1
247
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/parse.py](#)
Line number: 286
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
285         ilabel = cast(int, recorder.determine_route(next_token_value, force=force))
286         assert ilabel is not None
287
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/parse.py](#)
Line number: 348
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
347         elif value in self.grammar.soft_keywords:
348             assert type in self.grammar.tokens
349             # Current soft keywords (match, case, type) can only appear at the
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/parse.py](#)
Line number: 382
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
381         newnode = convert(self.grammar, rawnode)
382         assert node[-1] is not None
383         node[-1].append(newnode)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/parse.py](#)
Line number: 407
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
406         dfa, state, node = self.stack[-1]
407         assert node[-1] is not None
408         node[-1].append(newnode)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 76
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
75         rawfirst = self.first[name]
76         assert rawfirst is not None
77         first = {}
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 100
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
99         itoken = getattr(token, label, None)
100        assert isinstance(itoken, int), label
101        assert itoken in token.tok_name, label
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 101
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
100        assert isinstance(itoken, int), label
101        assert itoken in token.tok_name, label
102        if itoken in c.tokens:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 110
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

109          # Either a keyword or an operator
110          assert label[0] in (''', '''), label
111          value = eval(label)

```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)

Line number: 111

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```

110          assert label[0] in (''', '''), label
111          value = eval(label)
112          if value[0].isalpha():

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)

Line number: 158

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

157          fset = self.first[label]
158          assert fset is not None
159          totalset.update(fset)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)

Line number: 197

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

196          startsymbol = name
197          assert startsymbol is not None
198          return dfas, startsymbol

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)

Line number: 205

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

204          # values.
205          assert isinstance(start, NFASState)
206          assert isinstance(finish, NFASState)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)

Line number: 206

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

205          assert isinstance(start, NFASState)
206          assert isinstance(finish, NFASState)
207

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)

Line number: 214

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
213     def addclosure(state: NFASState, base: Dict[NFASState, int]) -> None:
214         assert isinstance(state, NFASState)
215         if state in base:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 380
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
379     def addarc(self, next: "NFASState", label: Optional[str] = None) -> None:
380         assert label is None or isinstance(label, str)
381         assert isinstance(next, NFASState)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 381
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
380         assert label is None or isinstance(label, str)
381         assert isinstance(next, NFASState)
382         self.arcs.append((label, next))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 391
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
390     def __init__(self, nfaset: Dict[NFASState, Any], final: NFASState) -> None:
391         assert isinstance(nfaset, dict)
392         assert isinstance(next(iter(nfaset)), NFASState)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 392
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
391         assert isinstance(nfaset, dict)
392         assert isinstance(next(iter(nfaset)), NFASState)
393         assert isinstance(final, NFASState)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 393
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
392         assert isinstance(next(iter(nfaset)), NFASState)
393         assert isinstance(final, NFASState)
394         self.nfaset = nfaset
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 399
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
398     def addarc(self, next: "DFASState", label: str) -> None:
399         assert isinstance(label, str)
400         assert label not in self.arcs
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 400
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
399     assert isinstance(label, str)
400     assert label not in self.arcs
401     assert isinstance(next, DFASState)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 401
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
400     assert label not in self.arcs
401     assert isinstance(next, DFASState)
402     self.arcs[label] = next
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/pgen.py](#)
Line number: 411
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
410     # Equality test -- ignore the nfaset instance variable
411     assert isinstance(other, DFASState)
412     if self.isfinal != other.isfinal:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)
Line number: 257
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
256     row, col = start
257     assert row <= self.prev_row
258     col_offset = col - self.prev_col
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)
Line number: 466
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
465     if contstr: # continued string
466         assert contline is not None
467         if not line:
```

hardcoded_password_string: Possible hardcoded password: ''

Test ID: B105
Severity: LOW
Confidence: MEDIUM
CWE: [CWE-259](#)
File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)
Line number: 572
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html

```
571             if initial in numchars or (
572                 initial == "." and token != "."
573             ): # ordinary number
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)

Line number: 587

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
586             elif initial == "#":
587                 assert not token.endswith("\n")
588                 if stashed:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)

Line number: 619

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
618             )
619             assert (
620                 maybe_endprog is not None
621             ), f"endprog not found for {token}"
622             endprog = maybe_endprog
```

hardcoded_password_string: Possible hardcoded password: 'async'

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)

Line number: 635

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```
634             yield (
635                 ASYNC if token == "async" else AWAIT,
636                 token,
```

hardcoded_password_string: Possible hardcoded password: 'async'

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)

Line number: 644

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```
643             tok = (NAME, token, spos, epos, line)
644             if token == "async" and not stashed:
645                 stashed = tok
```

hardcoded_password_string: Possible hardcoded password: 'def'

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pgen2/tokenize.py](#)

Line number: 650

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```
649             if stashed and stashed[0] == NAME and stashed[1] == "async":
650                 if token == "def":
651                     async_def = True
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pygram.py](#)

Line number: 176**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
175     python_grammar = driver.load_packed_grammar("blib2to3", _GRAMMAR_FILE, cache_dir)
176     assert "print" not in python_grammar.keywords
177     assert "exec" not in python_grammar.keywords
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pygram.py](#)**Line number:** 177**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
176     assert "print" not in python_grammar.keywords
177     assert "exec" not in python_grammar.keywords
178
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 80**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
79         """Constructor that prevents Base from being instantiated."""
80         assert cls is not Base, "Cannot instantiate Base"
81         return object.__new__(cls)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 137**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
136         """Replace this node with a new one in the parent."""
137         assert self.parent is not None, str(self)
138         assert new is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 138**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
137         assert self.parent is not None, str(self)
138         assert new is not None
139         if not isinstance(new, list):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 145**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
144             if ch is self:
145                 assert not found, (self.parent.children, self, new)
146                 if new is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 151

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
150             l_children.append(ch)
151         assert found, (self.children, self, new)
152         self.parent.children = l_children
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 201

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
200             self.parent.update_sibling_maps()
201         assert self.parent.next_sibling_map is not None
202         return self.parent.next_sibling_map[id(self)]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 215

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
214             self.parent.update_sibling_maps()
215         assert self.parent.prev_sibling_map is not None
216         return self.parent.prev_sibling_map[id(self)]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 261

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
260     """
261     assert type >= 256, type
262     self.type = type
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 265

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
264     for ch in self.children:
265         assert ch.parent is None, repr(ch)
266         ch.parent = self
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 277

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
276     """Return a canonical string representation."""
277     assert self.type is not None
278     return "{}({}, {!r})".format(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 297**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
296     def clone(self) -> "Node":  
297         assert self.type is not None  
298         """Return a cloned (deep) copy of self."""
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 414**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
413  
414     assert 0 <= type < 256, type  
415     if context is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 430**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
429  
430     assert self.type is not None  
431     return "{}({}, {!r})".format(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 450**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
449     def clone(self) -> "Leaf":  
450         assert self.type is not None  
451         """Return a cloned (deep) copy of self."""
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 495**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
494     # creating a new node.  
495     assert children is not None  
496     if len(children) == 1:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 529**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
528     """Constructor that prevents BasePattern from being instantiated."""  
529     assert cls is not BasePattern, "Cannot instantiate BasePattern"  
530     return object.__new__(cls)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 533**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
532     def __repr__(self) -> str:
533         assert self.type is not None
534         args = [type_repr(self.type), self.content, self.name]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 570**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
569     if r:
570         assert results is not None
571         results.update(r)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 616**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
615     if type is not None:
616         assert 0 <= type < 256, type
617     if content is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 618**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
617     if content is not None:
618         assert isinstance(content, str), repr(content)
619     self.type = type
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 670**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
669     if type is not None:
670         assert type >= 256, type
671     if content is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)**Line number:** 672**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
671     if content is not None:
672         assert not isinstance(content, str), repr(content)
673         newcontent = list(content)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 675

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
674         for i, item in enumerate(newcontent):
675             assert isinstance(item, BasePattern), (i, item)
676             # I don't even think this code is used anywhere, but it does cause
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 758

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
757         """
758         assert 0 <= min <= max <= HUGE, (min, max)
759         if content is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 763

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
762             # Check sanity of alternatives
763             assert len(wrapped_content), repr(
764                 wrapped_content
765             ) # Can't have zero alternatives
766             for alt in wrapped_content:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 767

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
766             for alt in wrapped_content:
767                 assert len(alt), repr(alt) # Can have empty alternatives
768                 self.content = wrapped_content
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 903

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
902                     break
903                     assert self.name is not None
904                     r[self.name] = nodes[:count]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 909

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
908             """Helper to recursively yield the matches."""
909             assert self.content is not None
910             if count >= self.min:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/blib2to3/pytree.py](#)

Line number: 933

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
932         if content is not None:
933             assert isinstance(content, BasePattern), repr(content)
934             self.content = content
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/api.py](#)

Line number: 434

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
433     def _get_cached_btype(self, type):
434         assert self._lock.acquire(False) is False
435         # call me with the lock!
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)

Line number: 789

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
788         BField, bitsize = name2fieldtype[fname]
789         assert bitsize < 0, \
790             "not implemented: initializer with bit fields"
791         offset = CTypesStructOrUnion._offsetof(fname)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)

Line number: 864

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
863             import traceback
864             assert not has_varargs, "varargs not supported for callbacks"
865             if getattr(BResult, '_ctype', None) is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)

Line number: 924

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
923             if has_varargs:
924                 assert len(args) >= len(BArgs)
925                 extraargs = args[len(BArgs):]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)

Line number: 928

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
927             else:
928                 assert len(args) == len(BArgs)
```

929

ctypes_args = []

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)
Line number: 950
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
949     def new_enum_type(self, name, enumerators, enumvalues, CTypesInt):
950         assert isinstance(name, str)
951         reverse_mapping = dict(zip(reversed(enumvalues),
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)
Line number: 991
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
990     else:
991         assert issubclass(cdata_or_BType, CTypesData)
992         return cdata_or_BType._get_size()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)
Line number: 995
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
994     def alignof(self, BType):
995         assert issubclass(BType, CTypesData)
996         return BType._alignment()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)
Line number: 1007
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1006     def callback(self, BType, source, error, onerror):
1007         assert onerror is None    # XXX not implemented
1008         return BType(source, error)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/backend_ctypes.py](#)
Line number: 1045
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1044     new_cdata = self.cast(self.typeof(cdata), cdata)
1045     assert new_cdata is not cdata
1046     weak_cache[MyRef(new_cdata, remove)] = (cdata, destructor)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/cffi_opcode.py](#)
Line number: 10
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
9         if self.op is None:
10             assert isinstance(self.arg, str)
```

```
11             return '(_cffi_opcode_t)(%s)' % (self.arg,)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/commontypes.py](#)
Line number: 48
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
47             assert isinstance(result, model.BaseTypeByIdentity)
48             _CACHE[commontype] = result, quals
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/cparser.py](#)
Line number: 237
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
236             p2 = csource.find('...', p, match.end())
237             assert p2 > p
238             csource = '%s,__dotdotdot%d__ %s' % (csource[:p], number,
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/cparser.py](#)
Line number: 241
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
240         else:
241             assert csource[p:p+3] == '...'
242             csource = '%s __dotdotdot%d__ %s' % (csource[:p], number,
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/cparser.py](#)
Line number: 405
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
404         else:
405             assert 0
406             current_decl = None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/cparser.py](#)
Line number: 513
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
512             tp, quals = self._get_type_and_quals(node, name=decl.name)
513             assert isinstance(tp, model.RawFunctionType)
514             self._declare_function(tp, quals, decl)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/cparser.py](#)
Line number: 565
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
564             ast, macros = self._parse('void __dummy(\n%s\n);' % cdecl)[:2]
565             assert not macros
```

566 exprnode = ast.ext[-1].type.args.params[0]

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/cparser.py](#)

Line number: 580

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
579                   "try cdef(xx, override=True))" % (name,))
580                   assert '__dotdotdot__' not in name.split()
581                   self._declarations[name] = (obj, quals)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/model.py](#)

Line number: 31

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
30                   result = self.c_name_with_marker
31                   assert result.count('&') == 1
32                   # some logic duplication with ffi.getctype()... :-(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/model.py](#)

Line number: 62

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
61                   BType2 = ffi._cached_btypes.setdefault(self, BType)
62                   assert BType2 is BType
63                   return BType
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/model.py](#)

Line number: 161

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
160                  def __init__(self, name):
161                    assert name in self.ALL_PRIMITIVE_TYPES
162                    self.name = name
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/model.py](#)

Line number: 341

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
340                  def get_official_name(self):
341                    assert self.c_name_with_marker.endswith('&')
342                    return self.c_name_with_marker[:-1]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/model.py](#)

Line number: 451

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
450                  if isinstance(ftype, ArrayType) and ftype.length is None:
451                    assert fsize == 0
```

452

else:

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/model.py](#)
Line number: 592
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
591     key = kwds.pop('key', (funcname, args))
592     assert not kwds
593     try:
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/cffi/pkgconfig.py](#)
Line number: 2
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
1     # pkg-config, https://www.freedesktop.org/wiki/Software/pkg-config/ integration for cffi
2     import sys, os, subprocess
3
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/cffi/pkgconfig.py](#)
Line number: 33
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
32     try:
33         pc = subprocess.Popen(a, stdout=subprocess.PIPE, stderr=subprocess.PIPE)
34     except EnvironmentError as e:
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/pkgconfig.py](#)
Line number: 41
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```
40         berr = berr.decode(encoding)
41     except Exception:
42         pass
43     raise PkgConfigError(berr.strip())
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 78
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
77     def as_python_expr(self):
78         flags = eval(self.flags, G_FLAGS)
79         fields_expr = [c_field.as_field_python_expr()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 148
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

147         if tp.is_raw_function:
148             assert self._typesdict[tp] is None
149             self._typesdict[tp] = len(self.cffi_types)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 152
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

151             for tp1 in tp.args:
152                 assert isinstance(tp1, (model.VoidType,
153                                         model.BasePrimitiveType,
154                                         model.PointerType,
155                                         model.StructOrUnionOrEnum,
156                                         model.FunctionPtrType))
157                 if self._typesdict[tp1] is None:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 169
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

168                     self.cffi_types.append('LEN') # placeholder
169                     assert None not in self._typesdict.values()
170                     #

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 193
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

192             for op in self.cffi_types:
193                 assert isinstance(op, CffiOp)
194                 self.cffi_types = tuple(self.cffi_types) # don't change any more

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 266
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

265             for tp, i in self._struct_unions.items():
266                 assert i < len(lst)
267                 assert lst[i].name == tp.name

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)
Line number: 267
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

266                 assert i < len(lst)
267                 assert lst[i].name == tp.name
268                 assert len(lst) == len(self._struct_unions)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)**Line number:** 268**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
267         assert lst[i].name == tp.name
268         assert len(lst) == len(self._struct_unions)
269         # same with enums
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)**Line number:** 272**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
271     for tp, i in self._enums.items():
272         assert i < len(lst)
273         assert lst[i].name == tp.name
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)**Line number:** 273**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
272         assert i < len(lst)
273         assert lst[i].name == tp.name
274         assert len(lst) == len(self._enums)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)**Line number:** 274**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
273         assert lst[i].name == tp.name
274         assert len(lst) == len(self._enums)
275
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)**Line number:** 283**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
282     if self.target_is_python:
283         assert preamble is None
284         self.write_py_source_to_f(f)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cffi/recompiler.py](#)**Line number:** 286**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
285     else:
286         assert preamble is not None
287         self.write_c_source_to_f(f, preamble)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)

Line number: 666

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
665     def _generate_cpy_function_decl(self, tp, name):
666         assert not self.target_is_python
667         assert isinstance(tp, model.FunctionPtrType)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)

Line number: 667

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
666     assert not self.target_is_python
667     assert isinstance(tp, model.FunctionPtrType)
668     if tp.ellipsis:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)

Line number: 1085

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1084     else:
1085         assert check_value is None
1086         prnt('static void %s(char *o)' % funcname)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)

Line number: 1227

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1226     def _generate_cpy_extern_python_collectctype(self, tp, name):
1227         assert isinstance(tp, model.FunctionPtrType)
1228         self._do_collect_type(tp)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)

Line number: 1399

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1398     else:
1399         assert self.cffi_types[index + 1] == 'LEN'
1400         self.cffi_types[index] = CffiOp(OP_ARRAY, item_index)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/recompiler.py](#)

Line number: 1458

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1457     def make_c_source(ffi, module_name, preamble, target_c_file, verbose=False):
1458         assert preamble is not None
1459         return _make_c_or_py_source(ffi, module_name, preamble, target_c_file,
```

exec_used: Use of exec detected.**Test ID:** B102**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [./venv/lib/python3.13/site-packages/cffi/setuptools_ext.py](#)**Line number:** 26**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
25     code = compile(src, filename, 'exec')
26     exec(code, glob, glob)
27
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/cffi/setuptools_ext.py](#)**Line number:** 224**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
223     def cffi_modules(dist, attr, value):
224         assert attr == 'cffi_modules'
225         if isinstance(value, basestring):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)**Line number:** 345**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
344     def _generate_cpy_function_collecttype(self, tp, name):
345         assert isinstance(tp, model.FunctionPtrType)
346         if tp.ellipsis:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)**Line number:** 356**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
355     def _generate_cpy_function_decl(self, tp, name):
356         assert isinstance(tp, model.FunctionPtrType)
357         if tp.ellipsis:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)**Line number:** 461**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
460     def _generate_cpy_struct_decl(self, tp, name):
461         assert name == tp.name
462         self._generate_struct_or_union_decl(tp, 'struct', name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)**Line number:** 472**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
471     def _generate_cpy_union_decl(self, tp, name):
472         assert name == tp.name
473         self._generate_struct_or_union_decl(tp, 'union', name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)

Line number: 554

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
553             tp.force_flatten()
554             assert len(fieldofs) == len(fieldsizes) == len(tp fldnames)
555             tp.fixedlayout = fieldofs, fieldsizes, totalsize, totalalignment
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)

Line number: 588

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
587                 i += 2
588                 assert i == len(layout)
589
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)

Line number: 633

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
632             else:
633                 assert category == 'const'
634             #
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)

Line number: 646

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
645                     'variable type'),))
646                     assert delayed
647                 else:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/vengine_cpy.py](#)

Line number: 785

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
784             if tp.length_is_unknown():
785                 assert isinstance(value, tuple)
786                 (value, size) = value
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)

Line number: 141

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
140     def _generate_gen_function_decl(self, tp, name):
141         assert isinstance(tp, model.FunctionPtrType)
142         if tp.ellipsis:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 188
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
187     def _loaded_gen_function(self, tp, name, module, library):
188         assert isinstance(tp, model.FunctionPtrType)
189         if tp.ellipsis:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 243
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
242     def _generate_gen_struct_decl(self, tp, name):
243         assert name == tp.name
244         self._generate_struct_or_union_decl(tp, 'struct', name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 253
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
252     def _generate_gen_union_decl(self, tp, name):
253         assert name == tp.name
254         self._generate_struct_or_union_decl(tp, 'union', name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 333
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
332             tp.force_flatten()
333             assert len(fieldofs) == len(fieldsize) == len(tp.fldnames)
334             tp.fixedlayout = fieldofs, fieldsize, totalsize, totalalignment
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 367
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
366             i += 2
367             assert i == len(layout)
368
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 400
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

399         if check_value is not None:
400             assert is_int
401             assert category == 'const'

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 401
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

400         assert is_int
401         assert category == 'const'
402         prnt('int %s(char *out_error)' % funcname)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 408
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

407         elif is_int:
408             assert category == 'const'
409             prnt('int %s(long long *out_value)' % funcname)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 415
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

414     else:
415         assert tp is not None
416         assert check_value is None

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 416
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

415         assert tp is not None
416         assert check_value is None
417         if category == 'var':

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 440
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

439         if check_value is not None:
440             assert is_int
441             self._load_known_int_constant(module, funcname)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/cffi/vengine_gen.py](#)
Line number: 454
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

453         else:
454             assert check_value is None
455             fntypeextra = '(*)(void)'

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cffi/verifier.py](#)
Line number: 212
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

211     def _load_library(self):
212         assert self._has_module
213         if self.flags is not None:

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/click/_compat.py](#)
Line number: 74
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

73         self.detach()
74     except Exception:
75         pass
76

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/click/_compat.py](#)
Line number: 167
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

166         return False
167     except Exception:
168         pass
169     return default

```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311
Severity: LOW
Confidence: HIGH
CWE: [CWE-330](#)
File: [/venv/lib/python3.13/site-packages/click/_compat.py](#)
Line number: 429
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```

428         os.path.dirname(filename),
429         f"__atomic-write{{random.randrange(1 << 32):08x}}",
430     )

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/click/_compat.py](#)
Line number: 552
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

551         _ansi_stream_wrappers[stream] = rv
552     except Exception:
553         pass
554

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/click/_compat.py](#)**Line number:** 600**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

599         cache[stream] = rv
600     except Exception:
601         pass
602     return rv

```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)**Line number:** 436**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```

435
436     import subprocess
437

```

subprocess_popen_with_shell_equals_true: subprocess call with shell=True identified, security issue.**Test ID:** B602**Severity:** HIGH**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)**Line number:** 453**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b602_subprocess_popen_with_shell_equals_true.html

```

452             [str(cmd_path)] + cmd_params,
453             shell=True,
454             stdin=subprocess.PIPE,
455             env=env,
456             errors="replace",
457             text=True,
458         )
459         assert c.stdin is not None
460         try:
461             for text in generator:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)**Line number:** 459**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

458         )
459         assert c.stdin is not None
460         try:

```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)**Line number:** 526**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```

525
526     import subprocess
527     import tempfile

```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)**Line number:** 538**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
537     try:
538         subprocess.call([str(cmd_path), filename])
539     except OSError:
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 590

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
589     def edit_files(self, filenames: cabc.Iterable[str]) -> None:
590         import subprocess
591
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 672

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
671     def open_url(url: str, wait: bool = False, locate: bool = False) -> int:
672         import subprocess
673
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 691

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
690         try:
691             return subprocess.Popen(args, stderr=null).wait()
692         finally:
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 705

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
704         try:
705             return subprocess.call(args)
706         except OSError:
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 719

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
718         try:
719             return subprocess.call(args)
720         except OSError:
```

start_process_with_partial_path: Starting a process with a partial executable path

Test ID: B607

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 729

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b607_start_process_with_partial_path.html

```

728         url = _unquote_file(url)
729         c = subprocess.Popen(["xdg-open", url])
730         if wait:

```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/click/_termui_impl.py](#)

Line number: 729

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```

728         url = _unquote_file(url)
729         c = subprocess.Popen(["xdg-open", url])
730         if wait:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/_winconsole.py](#)

Line number: 34

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

33
34     assert sys.platform == "win32"
35     import msvcrt # noqa: E402

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/_winconsole.py](#)

Line number: 208

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

207             self.flush()
208         except Exception:
209             pass
210         return self.buffer.write(x)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/core.py](#)

Line number: 1639

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1638     if args and callable(args[0]):
1639         assert len(args) == 1 and not kwargs, (
1640             "Use 'command(**kwargs)(callable)' to provide arguments."
1641         )
1642         (func,) = args

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/core.py](#)

Line number: 1688

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1687     if args and callable(args[0]):
1688         assert len(args) == 1 and not kwargs, (
1689             "Use 'group(**kwargs)(callable)' to provide arguments."
1690         )
1691         (func,) = args

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/click/core.py](#)

Line number: 1845

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1844             cmd_name, cmd, args = self.resolve_command(ctx, args)
1845             assert cmd is not None
1846             ctx.invoked_subcommand = cmd_name
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/click/core.py](#)

Line number: 1867

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1866             cmd_name, cmd, args = self.resolve_command(ctx, args)
1867             assert cmd is not None
1868             sub_ctx = cmd.make_context()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/click/core.py](#)

Line number: 2535

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
2534             # not to be exposed. We still assert it here to please the type checker.
2535             assert self.name is not None, (
2536                 f"{{self!r}} parameter's name should not be None when exposing value."
2537             )
2538             # Normalize UNSET values to None, as we're about to pass them to the
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/click/core.py](#)

Line number: 3061

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
3060             """
3061             assert self.prompt is not None
3062             """
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/click/decorators.py](#)

Line number: 211

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
210             name = None
211             assert cls is None, "Use 'command(cls=cls)(callable)' to specify a class."
212             assert not attrs, "Use 'command(**kwargs)(callable)' to provide arguments."
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/click/decorators.py](#)

Line number: 212

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
211             assert cls is None, "Use 'command(cls=cls)(callable)' to specify a class."
212             assert not attrs, "Use 'command(**kwargs)(callable)' to provide arguments."
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/click/decorators.py](#)
Line number: 236
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
235         if t.TYPE_CHECKING:  
236             assert cls is not None  
237             assert not callable(name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/click/decorators.py](#)
Line number: 237
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
236         assert cls is not None  
237         assert not callable(name)  
238
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/click/parser.py](#)
Line number: 193
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
192         if self.nargs > 1:  
193             assert isinstance(value, cabc.Sequence)  
194             holes = sum(1 for x in value if x is UNSET)
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/click/shell_completion.py](#)
Line number: 313
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
312         import shutil  
313         import subprocess  
314
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [./venv/lib/python3.13/site-packages/click/shell_completion.py](#)
Line number: 320
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
319         else:  
320             output = subprocess.run(  
321                 [bash_exe, "--norc", "-c", 'echo "${BASH_VERSION}"'],  
322                 stdout=subprocess.PIPE,  
323             )  
324             match = re.search(r"^\d+\.\d+\.\d+", output.stdout.decode())
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/click/shell_completion.py](#)
Line number: 514
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
513     assert param.name is not None
514
515     # Will be None if expose_value is False.
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/testing.py](#)

Line number: 409

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
408             del os.environ[key]
409         except Exception:
410             pass
411         else:
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/testing.py](#)

Line number: 419

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
418             del os.environ[key]
419         except Exception:
420             pass
421         else:
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/click/utils.py](#)

Line number: 42

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
41         return func(*args, **kwargs)
42     except Exception:
43         pass
44     return None
```

blacklist: Use of insecure MD2, MD4, MD5, or SHA1 hash function.

Test ID: B303

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-327](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/_oid.py](#)

Line number: 129

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b303-md5](#)

```
128     ] = {
129         SignatureAlgorithmOID.RSA_WITH_MD5: hashes.MD5(),
130         SignatureAlgorithmOID.RSA_WITH_SHA1: hashes.SHA1(),
```

blacklist: Use of insecure MD2, MD4, MD5, or SHA1 hash function.

Test ID: B303

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-327](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/_oid.py](#)

Line number: 130

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b303-md5](#)

```
129         SignatureAlgorithmOID.RSA_WITH_MD5: hashes.MD5(),
130         SignatureAlgorithmOID.RSA_WITH_SHA1: hashes.SHA1(),
131         SignatureAlgorithmOID._RSA_WITH_SHA1: hashes.SHA1(),
```

blacklist: Use of insecure MD2, MD4, MD5, or SHA1 hash function.

Test ID: B303

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-327](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/_oid.py](#)**Line number:** 131**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b303-md5](#)

```
130     SignatureAlgorithmOID.RSA_WITH_SHA1: hashes.SHA1(),
131     SignatureAlgorithmOID._RSA_WITH_SHA1: hashes.SHA1(),
132     SignatureAlgorithmOID.RSA_WITH_SHA224: hashes.SHA224(),
```

blacklist: Use of insecure MD2, MD4, MD5, or SHA1 hash function.**Test ID:** B303**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-327](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/_oid.py](#)**Line number:** 140**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b303-md5](#)

```
139     SignatureAlgorithmOID.RSA_WITH_SHA3_512: hashes.SHA3_512(),
140     SignatureAlgorithmOID.ECDSA_WITH_SHA1: hashes.SHA1(),
141     SignatureAlgorithmOID.ECDSA_WITH_SHA224: hashes.SHA224(),
```

blacklist: Use of insecure MD2, MD4, MD5, or SHA1 hash function.**Test ID:** B303**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-327](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/_oid.py](#)**Line number:** 149**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b303-md5](#)

```
148     SignatureAlgorithmOID.ECDSA_WITH_SHA3_512: hashes.SHA3_512(),
149     SignatureAlgorithmOID.DSA_WITH_SHA1: hashes.SHA1(),
150     SignatureAlgorithmOID.DSA_WITH_SHA224: hashes.SHA224(),
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 115**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
114     aead_cipher = _evp_aead_get_cipher(backend, cipher)
115     assert aead_cipher is not None
116     key_ptr = backend._ffi.from_buffer(key)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 136**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
135     # Currently only ChaCha20-Poly1305 is supported using this API
136     assert isinstance(cipher, ChaCha20Poly1305)
137     return backend._lib.EVP_aead_chacha20_poly1305()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 149**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
148     ) -> bytes:
149         assert ctx is not None
150
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 152**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
151     aead_cipher = _evp_aead_get_cipher(backend, cipher)
152     assert aead_cipher is not None
153
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 193**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
192     assert ctx is not None
193
194
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 247**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
246     else:
247         assert isinstance(cipher, AESGCM)
248         return f"aes-{len(cipher._key) * 8}-gcm".encode("ascii")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/aead.py](#)**Line number:** 320**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
319     if operation == _DECRYPT:
320         assert tag is not None
321         _evp_cipher_set_tag(backend, ctx, tag)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)**Line number:** 179**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
178     self._binding._enable_fips()
179     assert rust.openssl.is_fips_enabled()
180     self._fips_enabled = rust.openssl.is_fips_enabled()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)**Line number:** 349**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
348     def _bn_to_int(self, bn) -> int:
349         assert bn != self._ffi.NULL
350         self.openssl_assert(not self._lib.BN_is_negative(bn))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)

Line number: 923

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
922         else:
923             assert userdata.error == -2
924             raise ValueError
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)

Line number: 938

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
937         assert (
938             password is not None and userdata.called == 1
940         ) or password is None
941
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)

Line number: 1332

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1331         else:
1332             assert key_type == self._lib.EVP_PKEY_EC
1333             write_bio = self._lib.PEM_write_bio_ECPrivateKey
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)

Line number: 1347

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1346         else:
1347             assert key_type == self._lib.EVP_PKEY_EC
1348             write_bio = self._lib.i2d_ECPrivateKey_bio
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/backend.py](#)

Line number: 1756

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1755         else:
1756             assert keycertalg is None
1757             # We use OpenSSL's defaults
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/ec.py](#)

Line number: 272

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
271         else:
272             assert format is serialization.PublicFormat.UncompressedPoint
273             conversion = self._backend._lib.POINT_CONVERSION_UNCOMPRESSED
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/backends/openssl/rsa.py](#)
Line number: 252
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
251     if isinstance(padding, PSS):
252         assert isinstance(algorithm, hashes.HashAlgorithm)
253         res = backend._lib.EVP_PKEY_CTX_set_rsa_pss_saltlen(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/asymmetric/padding.py](#)
Line number: 101
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
100     salt_length = emlen - hash_algorithm.digest_size - 2
101     assert salt_length >= 0
102     return salt_length
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/asymmetric/rsa.py](#)
Line number: 293
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
292     q, r = divmod(n, p)
293     assert r == 0
294     p, q = sorted((p, q), reverse=True)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/ciphers/base.py](#)
Line number: 91
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
90         # type. Maybe it won't some time in the future.
91         assert isinstance(mode, modes.Mode)
92         mode.validate_for_algorithm(algorithm)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/ciphers/base.py](#)
Line number: 217
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
216         # mypy needs this assert even though _check_limit already checked
217         assert self._ctx is not None
218         return self._ctx.update(data)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/ciphers/base.py](#)
Line number: 223
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
222         # mypy needs this assert even though _check_limit already checked
223         assert self._ctx is not None
224         return self._ctx.update_into(data, buf)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/ciphers/base.py](#).
Line number: 268
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
267             )
268             assert self._tag is not None
269             return self._tag
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/kdf/kbkdf.py](#).
Line number: 50
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
49             ):
50             assert callable(prf)
51
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/kdf/kbkdf.py](#).
Line number: 276
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
275     def _prf(self, _: bytes) -> cmac.CMAC:
276         assert self._cipher is not None
277
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/kdf/kbkdf.py](#).
Line number: 283
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
282             assert self._cipher is not None
283
284
```

blacklist: Use of insecure cipher mode cryptography.hazmat.primitives.ciphers.modes.ECB.

Test ID: B305
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#).
Line number: 21
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b304-b305-ciphers-and-modes

```
20         # RFC 3394 Key Wrap - 2.2.1 (index method)
21         encryptor = Cipher(AES(wrapper_key), ECB()).encryptor()
22         n = len(r)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#).
Line number: 34
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

33         assert encryptor.finalize() == b""
34
35

```

blacklist: Use of insecure cipher mode cryptography.hazmat.primitives.ciphers.modes.ECB.
Test ID: B305
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#)
Line number: 64
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b304-b305-ciphers-and-modes

```

63     # Implement RFC 3394 Key Unwrap - 2.2.2 (index method)
64     decryptor = Cipher(AES(wrapper_key), ECB()).decryptor()
65     n = len(r)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#)
Line number: 77
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

76
77     assert decryptor.finalize() == b""
78     return a, r

```

blacklist: Use of insecure cipher mode cryptography.hazmat.primitives.ciphers.modes.ECB.
Test ID: B305
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#)
Line number: 97
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b304-b305-ciphers-and-modes

```

96     # RFC 5649 - 4.1 - exactly 8 octets after padding
97     encryptor = Cipher(AES(wrapper_key), ECB()).encryptor()
98     b = encryptor.update(aiv + key_to_wrap)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#)
Line number: 99
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

98     b = encryptor.update(aiv + key_to_wrap)
99     assert encryptor.finalize() == b""
100    return b

```

blacklist: Use of insecure cipher mode cryptography.hazmat.primitives.ciphers.modes.ECB.
Test ID: B305
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#)
Line number: 119
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b304-b305-ciphers-and-modes

```

118     # RFC 5649 - 4.2 - exactly two 64-bit blocks
119     decryptor = Cipher(AES(wrapper_key), ECB()).decryptor()
120     out = decryptor.update(wrapped_key)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/keywrap.py](#)
Line number: 121
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

120         out = decryptor.update(wrapped_key)
121         assert decryptor.finalize() == b""
122         a = out[:8]

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/serialization/ssh.py](#)
Line number: 679
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

678         if _SSH_CIPHERS[ciphername_bytes].is_aead:
679             assert isinstance(dec, AEADDecryptionContext)
680             _check_empty(dec.finalize_with_tag(tag))

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/serialization/ssh.py](#)
Line number: 928
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

927         else:
928             assert isinstance(signature_key, rsa.RSAPublicKey)
929             if self._inner_sig_type == _SSH_RSA:

```

blacklist: Use of insecure MD2, MD4, MD5, or SHA1 hash function.

Test ID: B303
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/serialization/ssh.py](#)
Line number: 930
More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b303-md5](#)

```

929         if self._inner_sig_type == _SSH_RSA:
930             hash_alg = hashes.SHA1()
931             elif self._inner_sig_type == _SSH_RSA_SHA256:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/serialization/ssh.py](#)
Line number: 934
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

933         else:
934             assert self._inner_sig_type == _SSH_RSA_SHA512
935             hash_alg = hashes.SHA512()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/serialization/ssh.py](#)
Line number: 950
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

949         else:
950             assert isinstance(curve, ec.SECP521R1)
951             return hashes.SHA512()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/hazmat/primitives/serialization/ssh.py](#)
Line number: 1514
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

1513         else:
1514             assert isinstance(private_key, rsa.RSAPrivateKey)
1515             # Just like Golang, we're going to use SHA512 for RSA

```

hashlib: Use of weak SHA1 hash for security. Consider usedforsecurity=False
Test ID: B324
Severity: HIGH
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/cryptography/x509/extensions.py](#)
Line number: 71
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html

```

70
71         return hashlib.sha1(data).digest()
72

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/cryptography/x509/name.py](#)
Line number: 139
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

138     ):
139         assert isinstance(value, str)
140         c_len = len(value.encode("utf8"))

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/iniconfig/_init_.py](#)
Line number: 139
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

138             raise ParseError(self.path, lineno, f"duplicate name {name!r}")
139             assert value is not None
140             sections_data[section][name] = value

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/mypy_extensions.py](#)
Line number: 244
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

243     else:
244         assert False, f"Add deprecation message for 'mypy_extensions.{name}'"
245         import warnings

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/packaging/_manylinux.py](#)
Line number: 96
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

95         version_string: str | None = os.confstr("CS_GNU_LIBC_VERSION")
96         assert version_string is not None
97         _, version = version_string.rsplit()

```

blacklist: Consider possible security implications associated with the subprocess module.
Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/packaging/_musllinux.py](#)
Line number: 11
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
10     import re
11     import subprocess
12     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/packaging/_musllinux.py](#)

Line number: 52

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
51         return None
52     proc = subprocess.run([ld], stderr=subprocess.PIPE, text=True)
53     return _parse_musl_version(proc.stderr)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/packaging/_musllinux.py](#)

Line number: 79

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
78     plat = sysconfig.get_platform()
79     assert plat.startswith("linux-"), "not linux"
80
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/packaging/_tokenizer.py](#)

Line number: 123

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
122     """
123     assert self.next_token is None, (
124         f"Cannot check for {name!r}, already have {self.next_token!r}"
125     )
126     assert name in self.rules, f"Unknown token name: {name!r}"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/packaging/_tokenizer.py](#)

Line number: 126

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
125         )
126     assert name in self.rules, f"Unknown token name: {name!r}"
127
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/packaging/_tokenizer.py](#)

Line number: 149

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
148     token = self.next_token
149     assert token is not None
150
```

hardcoded_password_string: Possible hardcoded password: 'with'

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [./venv/lib/python3.13/site-packages/packaging/licenses/_init_.py](#)

Line number: 90**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html

```

99         python_tokens.append("False")
100        elif token == "with":
101            python_tokens.append("or")

```

hardcoded_password_string: Possible hardcoded password: '('**Test ID:** B105**Severity:** LOW**Confidence:** MEDIUM**CWE:** [CWE-259](#)**File:** [./venv/lib/python3.13/site-packages/packaging/licenses/_init_.py](#)**Line number:** 92**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html

```

91         python_tokens.append("or")
92         elif token == "(" and python_tokens and python_tokens[-1] not in {"or", "and"}:
93             message = f"Invalid license expression: {raw_license_expression!r}"

```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.**Test ID:** B307**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [./venv/lib/python3.13/site-packages/packaging/licenses/_init_.py](#)**Line number:** 100**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```

99     try:
100         invalid = eval(python_expression, globals(), locals())
101     except Exception:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/packaging/markers.py](#)**Line number:** 143**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

142     ) -> str:
143         assert isinstance(marker, (list, tuple, str))
144

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/packaging/markers.py](#)**Line number:** 204**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

203     if key == "extra":
204         assert isinstance(rhs, str), "extra value must be a string"
205         return (canonicalize_name(lhs), canonicalize_name(rhs))

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/packaging/markers.py](#)**Line number:** 222**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

221     for marker in markers:
222         assert isinstance(marker, (list, tuple, str))
223

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/packaging/markers.py](#)
Line number: 237
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
236         rhs_value = environment[environment_key]
237         assert isinstance(lhs_value, str), "lhs must be a string"
238         lhs_value, rhs_value = _normalize(lhs_value, rhs_value, key=environment_key)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/packaging/markers.py](#)

Line number: 241

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
240     else:
241         assert marker in ["and", "or"]
242         if marker == "or":
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/packaging/metadata.py](#)

Line number: 226

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
225     payload = msg.get_payload()
226     assert isinstance(payload, str)
227     return payload
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/packaging/metadata.py](#)

Line number: 232

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
231     bpayload = msg.get_payload(decode=True)
232     assert isinstance(bpayload, bytes)
233     try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/packaging/metadata.py](#)

Line number: 337

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
336     # a str, so we'll just assert here to make sure.
337     assert isinstance(h, (email.header.Header, str))
338
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/packaging/tags.py](#)

Line number: 11

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
10     import struct
11     import subprocess
12     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/packaging/tags.py](#)**Line number:** 414**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```

413         # instead of the real version.
414         version_str = subprocess.run(
415             [
416                 sys.executable,
417                 "-SS",
418                 "-c",
419                 "import platform; print(platform.mac_ver()[0])",
420             ],
421             check=True,
422             env={"SYSTEM_VERSION_COMPAT": "0"},
423             stdout=subprocess.PIPE,
424             text=True,
425         ).stdout
426         version = cast("AppleVersion", tuple(map(int, version_str.split(".")[:2])))

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/packaging/version.py](#)**Line number:** 497**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

496
497     assert not letter
498     if number:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pathspec/pattern.py](#)**Line number:** 115**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

114             if isinstance(pattern, (str, bytes)):
115                 assert include is None, (
116                     f"include:{include!r} must be null when pattern:{pattern!r} is a string"
117                 )
118             regex, include = self.pattern_to_regex(pattern)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pathspec/pattern.py](#)**Line number:** 132**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

131             # null-operation.
132             assert include is None, (
133                 f"include:{include!r} must be null when pattern:{pattern!r} is null."
134             )
135

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_pip-runner_.py](#)**Line number:** 43**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

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

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_pip-runner_.py](#)
Line number: 49
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
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)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/build_env.py](#)
Line number: 212
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cache.py](#)
Line number: 39
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
38             super().__init__()
39             assert not cache_dir or os.path.isabs(cache_dir)
40             self.cache_dir = cache_dir or None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cache.py](#)
Line number: 123
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
122             parts = self._get_cache_path_parts(link)
123             assert self.cache_dir
124             # Store wheels within the root cache_dir
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/base_command.py](#)
Line number: 88
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
87             # are present.
88             assert not hasattr(options, "no_index")
89
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/base_command.py](#)
Line number: 106
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

105         status = _inner_run()
106         assert isinstance(status, int)
107         return status

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/command_context.py](#)
Line number: 15
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

14     def main_context(self) -> Generator[None, None, None]:
15         assert not self._in_main_context
16

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/command_context.py](#)
Line number: 25
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

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

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/index_command.py](#)
Line number: 82
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

81         # then https://github.com/python/mypy/issues/7696 kicks in
82         assert self._session is not None
83         return self._session

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/index_command.py](#)
Line number: 94
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

93         cache_dir = options.cache_dir
94         assert not cache_dir or os.path.isabs(cache_dir)
95

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/index_command.py](#)
Line number: 157
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

156         # Make sure the index_group options are present.
157         assert hasattr(options, "no_index")
158

```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/main_parser.py](#)
Line number: 4
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
3     import os
4     import subprocess
5     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/main_parser.py](#)

Line number: 100

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)

Line number: 51

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)

Line number: 112

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)

Line number: 114

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)

Line number: 168

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)

Line number: 225

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)
Line number: 252
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/parser.py](#)
Line number: 285
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/progress_bars.py](#)
Line number: 34
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
33     ) -> Generator[bytes, None, None]:
34         assert bar_type == "on", "This should only be used in the default mode."
35
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/req_command.py](#)
Line number: 63
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
62     ) -> Optional[int]:
63         assert self.tempdir_registry is not None
64         if options.no_clean:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/req_command.py](#)
Line number: 110
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
109     temp_build_dir_path = temp_build_dir.path
110     assert temp_build_dir_path is not None
111     legacy_resolver = False
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/spinners.py](#)
Line number: 44
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/cli/spinners.py](#)
Line number: 83
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

any_other_function_with_shell_equals_true: Function call with shell=True parameter identified, possible security issue.
Test ID: B604
Severity: MEDIUM
Confidence: LOW
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/commands/completion.py](#)
Line number: 130
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b604_any_other_function_with_shell_equals_true.html

```
129
130     )
131     print(BASE_COMPLETION.format(script=script, shell=options.shell))
return SUCCESS
```

blacklist: Consider possible security implications associated with the subprocess module.
Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/commands/configuration.py](#)
Line number: 3
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

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

subprocess_popen_with_shell_equals_true: subprocess call with shell=True identified, security issue.
Test ID: B602
Severity: HIGH
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/commands/configuration.py](#)
Line number: 239
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b602_subprocess_popen_with_shell_equals_true.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/commands/debug.py](#)
Line number: 73
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/commands/download.py](#)
Line number: 137
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

136         if req.satisfied_by is None:
137             assert req.name is not None
138             preparer.save_linked_requirement(req)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/commands/install.py](#)
Line number: 521
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

520     if options.target_dir:
521         assert target_temp_dir
522         self._handle_target_dir()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/commands/install.py](#)
Line number: 610
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

609     else:
610         assert resolver_variant == "resolvelib"
611         parts.append(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/commands/install.py](#)
Line number: 707
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

706     # If we are here, user installs have not been explicitly requested/avoided
707     assert use_user_site is None
708

```

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.

Test ID: B411
Severity: HIGH
Confidence: HIGH
CWE: [CWE-20](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/commands/search.py](#)
Line number: 5
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b411-import-xmlrpclib

```

4     import textwrap
5     import xmlrpclib
6     from collections import OrderedDict

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/commands/search.py](#)
Line number: 82
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

81         raise CommandError(message)
82         assert isinstance(hits, list)
83         return hits

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/commands/wheel.py](#)

Line number: 167**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
166         for req in build_successes:
167             assert req.link and req.link.is_wheel
168             assert req.local_file_path
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/commands/wheel.py](#)**Line number:** 168**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
167             assert req.link and req.link.is_wheel
168             assert req.local_file_path
169             # copy from cache to target directory
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/configuration.py](#)**Line number:** 130**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
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
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/configuration.py](#)**Line number:** 160**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/configuration.py](#)**Line number:** 180**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
179
180             assert self.load_only
181             if key not in self._config[self.load_only]:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/configuration.py](#)**Line number:** 365**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
364                 # Determine which parser to modify
365                 assert self.load_only
366                 parsers = self._parsers[self.load_only]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/distributions/installer.py](#)
Line number: 20
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
19         def get_metadata_distribution(self) -> BaseDistribution:
20             assert self.req.satisfied_by is not None, "not actually installed"
21             return self.req.satisfied_by
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/distributions/sdist.py](#)
Line number: 26
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
25         """Identify this requirement uniquely by its link."""
26         assert self.req.link
27         return self.req.link.url_without_fragment
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/distributions/sdist.py](#)
Line number: 61
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
60     pyproject_requires = self.req.pyproject_requires
61     assert pyproject_requires is not None
62     conflicting, missing = self.req.build_env.check_requirements(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/distributions/sdist.py](#)
Line number: 75
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
74     pyproject_requires = self.req.pyproject_requires
75     assert pyproject_requires is not None
76
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/distributions/sdist.py](#)
Line number: 101
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
100    backend = self.req.pep517_backend
101    assert backend is not None
102    with backend.subprocess_runner(runner):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/distributions/sdist.py](#)
Line number: 111
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
110    backend = self.req.pep517_backend
111    assert backend is not None
112    with backend.subprocess_runner(runner):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/distributions/wheel.py](#)**Line number:** 31**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

30         """
31         assert self.req.local_file_path, "Set as part of preparation during download"
32         assert self.req.name, "Wheels are never unnamed"

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/distributions/wheel.py](#)**Line number:** 32**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

31         assert self.req.local_file_path, "Set as part of preparation during download"
32         assert self.req.name, "Wheels are never unnamed"
33         wheel = FilesystemWheel(self.req.local_file_path)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/exceptions.py](#)**Line number:** 90**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

89             if reference is None:
90                 assert hasattr(self, "reference"), "error reference not provided!"
91                 reference = self.reference

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/exceptions.py](#)**Line number:** 92**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

91             reference = self.reference
92             assert _is_kebab_case(reference), "error reference must be kebab-case!"
93

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/exceptions.py](#)**Line number:** 656**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

655             else:
656                 assert self.error is not None
657                 message_part = f"\n{self.error}\n"

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/collector.py](#)**Line number:** 189**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

188     def __init__(self, page: "IndexContent") -> None:
189         assert page.cache_link_parsing
190         self.page = page

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/package_finder.py](#)**Line number:** 365**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
364     def __post_init__(self) -> None:
365         assert set(self.applicable_candidates) <= set(self.all_candidates)
366
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/package_finder.py](#)**Line number:** 368**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
367     if self.best_candidate is None:
368         assert not self.applicable_candidates
369     else:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/package_finder.py](#)**Line number:** 370**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
369     else:
370         assert self.best_candidate in self.applicable_candidates
371
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/package_finder.py](#)**Line number:** 697**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
696     cert = self._link_collector.session.cert
697     assert not isinstance(cert, tuple), "pip only supports PEM client certs"
698     return cert
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/package_finder.py](#)**Line number:** 859**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
858     for candidate in file_candidates:
859         assert candidate.link.url # we need to have a URL
860     try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/index/package_finder.py](#)**Line number:** 928**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
927     name = req.name
928     assert name is not None, "find_requirement() called with no name"
929
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/locations/_distutils.py](#)

Line number: 66

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/locations/_distutils.py](#)

Line number: 71

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/locations/_distutils.py](#)

Line number: 72

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/metadata/pkg_resources.py](#)

Line number: 112

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
111         else:
112             assert dist_dir.endswith(".dist-info")
113             dist_cls = pkg_resources.DistInfoDistribution
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/models/direct_url.py](#)

Line number: 60

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
59         )
60     assert infos[0] is not None
61     return infos[0]
```

hardcoded_password_string: Possible hardcoded password: 'git'

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/models/direct_url.py](#)

Line number: 171

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```
170             and self.info.vcs == "git"
171             and user_pass == "git"
172         ):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/installation_report.py](#)

Line number: 15

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
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 = {
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/link.py](#)

Line number: 69

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
68     def __post_init__(self) -> None:
69         assert self.name in _SUPPORTED_HASHES
70
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/link.py](#)

Line number: 105

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
104         if self.hashes is not None:
105             assert all(name in _SUPPORTED_HASHES for name in self.hashes)
106
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/link.py](#)

Line number: 422

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/pylock.py](#)

Line number: 94

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
93     download_info = ireq.download_info
94     assert download_info
95     package = cls(name=dist.canonical_name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/wheel.py](#)

Line number: 82

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

81         legacy_wheel_info = self.legacy_wheel_file_re.match(self.filename)
82         assert legacy_wheel_info is not None, "guaranteed by filename validation"
83         build_tag = legacy_wheel_info.group("build")

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/models/wheel.py](#)

Line number: 85

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

84             match = re.match(r"^\d+(.*)$", build_tag)
85             assert match is not None, "guaranteed by filename validation"
86             build_tag_groups = match.groups()

```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/auth.py](#)

Line number: 10

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```

9     import shutil
10    import subprocess
11    import sysconfig

```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/auth.py](#)

Line number: 137

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```

136         env["PYTHONIOENCODING"] = "utf-8"
137         res = subprocess.run(
138             cmd,
139             stdin=subprocess.DEVNULL,
140             stdout=subprocess.PIPE,
141             env=env,
142         )
143         if res.returncode:

```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/auth.py](#)

Line number: 153

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```

152         env["PYTHONIOENCODING"] = "utf-8"
153         subprocess.run(
154             [self.keyring, "set", service_name, username],
155             input=f"{password}{os.linesep}".encode(),
156             env=env,
157             check=True,
158         )
159         return None

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/auth.py](#)

Line number: 431

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

430         assert (
431

```

```

432     # Credentials were found
433     (username is not None and password is not None)
434     # Credentials were not found
435     or (username is None and password is None)
436 ), f"Could not load credentials from url: {original_url}"
437

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/auth.py](#)

Line number: 553

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

552         """Response callback to save credentials on success."""
553         assert (
554             self.keyring_provider.has_keyring
555         ), "should never reach here without keyring"
556

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/cache.py](#)

Line number: 50

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

49     def __init__(self, directory: str) -> None:
50         assert directory is not None, "Cache directory must not be None."
51         super().__init__()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/download.py](#)

Line number: 152

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

151     except NetworkConnectionError as e:
152         assert e.response is not None
153         logger.critical("HTTP error %s while getting %s", e.response.status_code, link)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/download.py](#)

Line number: 165

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

164     ) -> None:
165         assert (
166             resume_retries >= 0
167         ), "Number of max resume retries must be bigger or equal to zero"
168         self._session = session

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/lazy_wheel.py](#)

Line number: 54

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

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

```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/session.py](#)

Line number: 15

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess](#)

```
14     import shutil
15     import subprocess
16     import sys
```

start_process_with_partial_path: Starting a process with a partial executable path

Test ID: B607

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/session.py](#)

Line number: 184

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b607_start_process_with_partial_path.html](#)

```
183         try:
184             rustc_output = subprocess.check_output(
185                 ["rustc", "--version"], stderr=subprocess.STDOUT, timeout=0.5
186             )
187         except Exception:
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/session.py](#)

Line number: 184

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
183         try:
184             rustc_output = subprocess.check_output(
185                 ["rustc", "--version"], stderr=subprocess.STDOUT, timeout=0.5
186             )
187         except Exception:
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/session.py](#)

Line number: 187

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
186         )
187     except Exception:
188         pass
189     else:
```

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.

Test ID: B411

Severity: HIGH

Confidence: HIGH

CWE: [CWE-20](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/network/xmlrpc.py](#)

Line number: 5

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b411-import-xmlrpclib](#)

```
4     import urllib.parse
5     import xmlrpclib
6     from typing import TYPE_CHECKING, Tuple
```

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.

Test ID: B411

Severity: HIGH

Confidence: HIGH

CWE: [CWE-20](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/xmlrpc.py](#)
Line number: 13
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b411-import-xmlrpclib

```
12     if TYPE_CHECKING:
13         from xmlrpc.client import _HostType, _Marshallable
14
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/xmlrpc.py](#)
Line number: 40
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/network/xmlrpc.py](#)
Line number: 55
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/build/build_tracker.py](#)
Line number: 36
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/build/build_tracker.py](#)
Line number: 105
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
104             # If we're here, req should really not be building already.
105             assert key not in self._entries
106
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/build/metadata_editable.py](#)
Line number: 40
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
39             assert distinfo_dir is not None
40             return os.path.join(metadata_dir, distinfo_dir)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/build/wheel.py](#)
Line number: 22
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/build/wheel_editable.py](#)
Line number: 22
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/freeze.py](#)
Line number: 164
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
163     editable_project_location = dist.editable_project_location
164     assert editable_project_location
165     location = os.path.normcase(os.path.abspath(editable_project_location))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/install/wheel.py](#)
Line number: 96
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
95     # XXX RECORD hashes will need to be updated
96     assert os.path.isfile(path)
97
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/install/wheel.py](#)
Line number: 618
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
617             pyc_path = pyc_output_path(path)
618             assert os.path.exists(pyc_path)
619             pyc_record_path = cast(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 79
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW

Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 166
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
165
166     assert not link.is_existing_dir()
167
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 317
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
316         return
317     assert req.source_dir is None
318     if req.link.is_existing_dir():
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 391
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
390         return None
391     assert req.req is not None
392     logger.verbose(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 467
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
466     for req in partially_downloaded_reqs:
467         assert req.link
468         links_to_fully_download[req.link] = req
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 500
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
499         """Prepare a requirement to be obtained from req.link."""
500         assert req.link
501         self._log_preparing_link(req)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)
Line number: 567
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
566     ) -> BaseDistribution:
567         assert req.link
568         link = req.link
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 573

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
572         if hashes and req.is_wheel_from_cache:
573             assert req.download_info is not None
574             assert link.is_wheel
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 574

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
573         assert req.download_info is not None
574         assert link.is_wheel
575         assert link.is_file
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 575

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
574         assert link.is_wheel
575         assert link.is_file
576         # We need to verify hashes, and we have found the requirement in the cache
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 626

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
625         # prepare_editable_requirement).
626         assert not req.editable
627         req.download_info = direct_url_from_link(link, req.source_dir)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 657

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
656     def save_linked_requirement(self, req: InstallRequirement) -> None:
657         assert self.download_dir is not None
658         assert req.link is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 658

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
657         assert self.download_dir is not None
658         assert req.link is not None
659         link = req.link
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 687

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
686         """Prepare an editable requirement."""
687         assert req.editable, "cannot prepare a non-editable req as editable"
688
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 700

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
699             req.update_editable()
700             assert req.source_dir
701             req.download_info = direct_url_for_editable(req.unpacked_source_directory)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 721

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
720         """Prepare an already-installed requirement."""
721         assert req.satisfied_by, "req should have been satisfied but isn't"
722         assert skip_reason is not None, ()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/operations/prepare.py](#)

Line number: 722

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
721             assert req.satisfied_by, "req should have been satisfied but isn't"
722             assert skip_reason is not None, ()
723             "did not get skip reason skipped but req.satisfied_by "
724             f"is set to {req.satisfied_by}"
725         )
726         logger.info(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/pyproject.py](#)

Line number: 115

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
114     # At this point, we know whether we're going to use PEP 517.
115     assert use_pep517 is not None
116
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/pyproject.py](#)

Line number: 140

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
139      # specified a backend, though.
140      assert build_system is not None
141
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/_init_.py](#)
Line number: 32
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/_init_.py](#)
Line number: 74
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
73      req_name = requirement.name
74      assert req_name is not None
75      if requirement.should_reinstall:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/constructors.py](#)
Line number: 75
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
74      # ireq.req is a valid requirement so the regex should always match
75      assert (
76          match is not None
77      ), f"regex match on requirement {req} failed, this should never happen"
78      pre: Optional[str] = match.group(1)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/constructors.py](#)
Line number: 80
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
79      post: Optional[str] = match.group(3)
80      assert (
81          pre is not None and post is not None
82      ), f"regex group selection for requirement {req} failed, this should never happen"
83      extras: str = "[{}].format(", ".join(sorted(new_extras)) if new_extras else "")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_file.py](#)
Line number: 199
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
198      assert line.requirement is not None
199
200
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/req/req_file.py](#)**Line number:** 511**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
510             new_line.append(line)
511             assert primary_line_number is not None
512             yield primary_line_number, "".join(new_line)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/req/req_file.py](#)**Line number:** 523**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
522         if new_line:
523             assert primary_line_number is not None
524             yield primary_line_number, "".join(new_line)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)**Line number:** 90**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
89         ) -> None:
90             assert req is None or isinstance(req, Requirement), req
91             self.req = req
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)**Line number:** 104**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
103         if self.editable:
104             assert link
105             if link.is_file:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)**Line number:** 252**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
251             return False
252             assert self.pep517_backend
253             with self.build_env:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)**Line number:** 262**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
261     def specifier(self) -> SpecifierSet:
262         assert self.req is not None
263         return self.req.specifier
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 276

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
275     """
276         assert self.req is not None
277         specifiers = self.req.specifier
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 325

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
324     if link and link.hash:
325         assert link.hash_name is not None
326         good_hashes.setdefault(link.hash_name, []).append(link.hash)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 347

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
346     ) -> str:
347         assert build_dir is not None
348         if self._temp_build_dir is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 349

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
348     if self._temp_build_dir is not None:
349         assert self._temp_build_dir.path
350         return self._temp_build_dir.path
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 389

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
388     """Set requirement after generating metadata."""
389     assert self.req is None
390     assert self.metadata is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 390

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
389     assert self.req is None
390     assert self.metadata is not None
391     assert self.source_dir is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 391
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
390         assert self.metadata is not None
391         assert self.source_dir is not None
392
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 410
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
409     def warn_on_mismatching_name(self) -> None:
410         assert self.req is not None
411         metadata_name = canonicalize_name(self.metadata["Name"])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 480
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
479     def unpacked_source_directory(self) -> str:
480         assert self.source_dir, f"No source dir for {self}"
481         return os.path.join(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 487
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 494
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 501
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

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

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 517
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
516         if pyproject_toml_data is None:
517             assert not self.config_settings
518             self.use_pep517 = False
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 559
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
558         """
559         assert self.source_dir, f"No source dir for {self}"
560         details = self.name or f"from {self.link}"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 563
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
562         if self.use_pep517:
563             assert self.pep517_backend is not None
564             if (
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 608
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
607             elif self.local_file_path and self.is_wheel:
608                 assert self.req is not None
609                 return get_wheel_distribution()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 619
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
618     def assert_source_matches_version(self) -> None:
619         assert self.source_dir, f"No source dir for {self}"
620         version = self.metadata["version"]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)
Line number: 659
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
658     def needs_unpacked_archive(self, archive_source: Path) -> None:
659         assert self._archive_source is None
660         self._archive_source = archive_source
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 664

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
663         """Ensure the source directory has not yet been built in."""
664         assert self.source_dir is not None
665         if self._archive_source is not None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 687

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
686             return
687             assert self.editable
688             assert self.source_dir
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 688

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
687             assert self.editable
688             assert self.source_dir
689             if self.link.scheme == "file":
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 695

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
694             # So here, if it's neither a path nor a valid VCS URL, it's a bug.
695             assert vcs_backend, f"Unsupported VCS URL {self.link.url}"
696             hidden_url = hide_url(self.link.url)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 715

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
714             """
715             assert self.req
716             dist = get_default_environment().get_distribution(self.req.name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 728

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

727     def _clean_zip_name(name: str, prefix: str) -> str:
728         assert name.startswith(
729             prefix + os.path.sep
730         ), f"name {name!r} doesn't start with prefix {prefix!r}"
731         name = name[len(prefix) + 1 :]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 735

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

734
735     assert self.req is not None
736     path = os.path.join(parentdir, path)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 745

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

744     """
745     assert self.source_dir
746     if build_dir is None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 817

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

816     ) -> None:
817         assert self.req is not None
818         scheme = get_scheme(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 864

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

863
864     assert self.is_wheel
865     assert self.local_file_path
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_install.py](#)

Line number: 865

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

864     assert self.is_wheel
865     assert self.local_file_path
866
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/req/req_set.py](#)

Line number: 42**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
41     def add_unnamed_requirement(self, install_req: InstallRequirement) -> None:
42         assert not install_req.name
43         self.unnamed_requirements.append(install_req)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/req/req_set.py](#)**Line number:** 46**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
45     def add_named_requirement(self, install_req: InstallRequirement) -> None:
46         assert install_req.name
47
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/req/req_uninstall.py](#)**Line number:** 70**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
69     location = dist.location
70     assert location is not None, "not installed"
71
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/req/req_uninstall.py](#)**Line number:** 531**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
530
531     )
532     assert os.path.samefile(
533         normalized_link_pointer, normalized_dist_location
534     ), (
535         f"Egg-link {develop_egg_link} (to {link_pointer}) does not match "
536         f"installed location of {dist.raw_name} (at {dist_location})"
537     )
538     paths_to_remove.add(develop_egg_link)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)**Line number:** 131**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
130     super().__init__()
131     assert upgrade_strategy in self._allowed_strategies
132
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)**Line number:** 234**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
233     # This next bit is really a sanity check.
234     assert (
235         not install_req.user_supplied or parent_req_name is None
```

```
236     ), "a user supplied req shouldn't have a parent"
237
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)
Line number: 312
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
311         else:
312             assert self.upgrade_strategy == "only-if-needed"
313             return req.user_supplied or req.constraint
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)
Line number: 321
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
320         # conflict is not a user install.
321         assert req.satisfied_by is not None
322         if not self.use_user_site or req.satisfied_by.in_usersite:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)
Line number: 421
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
420         assert req.link is not None, "_find_requirement_link unexpectedly returned None"
421         cache_entry = self.wheel_cache.get_cache_entry(
422
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)
Line number: 450
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
449         # so it must be None here.
450         assert req.satisfied_by is None
451         skip_reason = self._check_skip_installed(req)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)
Line number: 535
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
534         # can refer to it when adding dependencies.
535         assert req_to_install.name is not None
536         if not requirement_set.has_requirement(req_to_install.name):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_internal/resolution/legacy/resolver.py](#)
Line number: 540
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
539             # provided by the user.
540             assert req_to_install.user_supplied
541             self._add_requirement_to_set()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)
Line number: 59
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
58     ) -> InstallRequirement:
59         assert not template.editable, "template is editable"
60         if template.req:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)
Line number: 84
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
83     ) -> InstallRequirement:
84         assert template.editable, "template not editable"
85         ireq = install_req_from_editable(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)
Line number: 280
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
279         ireq = make_install_req_from_link(link, template)
280         assert ireq.link == link
281         if ireq.link.is_wheel and not ireq.link.is_file:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)
Line number: 284
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
283         wheel_name = canonicalize_name(wheel.name)
284         assert name == wheel_name, f"{{name!r}} != {{wheel_name!r}} for wheel"
285         # Version may not be present for PEP 508 direct URLs
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)
Line number: 288
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
287             wheel_version = Version(wheel.version)
288             assert (
289                 version == wheel_version
290             ), f"{{version!r}} != {{wheel_version!r}} for wheel {{name}}"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)

Line number: 293**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
292         if cache_entry is not None:
293             assert ireq.link.is_wheel
294             assert ireq.link.is_file
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/candidates.py](#)**Line number:** 294**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
293         assert ireq.link.is_wheel
294         assert ireq.link.is_file
295         if cache_entry.persistent and template.link is template.original_link:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/factory.py](#)**Line number:** 267**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
266         template = ireqs[0]
267         assert template.req, "Candidates found on index must be PEP 508"
268         name = canonicalize_name(template.req.name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/factory.py](#)**Line number:** 272**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
271         for ireq in ireqs:
272             assert ireq.req, "Candidates found on index must be PEP 508"
273             specifier &= ireq.req.specifier
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/factory.py](#)**Line number:** 372**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
371         base_cand = as_base_candidate(lookup_cand)
372         assert base_cand is not None, "no extras here"
373         yield self._make_extras_candidate(base_cand, extras)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/factory.py](#)**Line number:** 538**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
537             continue
538             assert ireq.name, "Constraint must be named"
539             name = canonicalize_name(ireq.name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/factory.py](#)

Line number: 652

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
651     ) -> UnsupportedPythonVersion:  
652         assert causes, "Requires-Python error reported with no cause"  
653
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/factory.py](#)

Line number: 728

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
727     ) -> InstallationError:  
728         assert e.causes, "Installation error reported with no cause"  
729
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/requirements.py](#)

Line number: 52

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
51     def __init__(self, ireq: InstallRequirement) -> None:  
52         assert ireq.link is None, "This is a link, not a specifier"  
53         self._ireq = ireq
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/requirements.py](#)

Line number: 86

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
85     def project_name(self) -> NormalizedName:  
86         assert self._ireq.req, "Specifier-backed ireq is always PEP 508"  
87         return canonicalize_name(self._ireq.req.name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/requirements.py](#)

Line number: 110

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
109     def is_satisfied_by(self, candidate: Candidate) -> bool:  
110         assert candidate.name == self.name, (  
111             f"Internal issue: Candidate is not for this requirement "  
112             f"\'{candidate.name}\' vs \'{self.name}\'"  
113         )  
114         # We can safely always allow prereleases here since PackageFinder
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/requirements.py](#)

Line number: 117

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
116         # prerelease candidates if the user does not expect them.  
117         assert self._ireq.req, "Specifier-backed ireq is always PEP 508"  
118         spec = self._ireq.req.specifier
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/requirements.py](#)
Line number: 129
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
128     def __init__(self, ireq: InstallRequirement) -> None:
129         assert ireq.link is None, "This is a link, not a specifier"
130         self._ireq = install_req_drop_extras(ireq)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/requirements.py](#)
Line number: 203
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
202     def is_satisfied_by(self, candidate: Candidate) -> bool:
203         assert candidate.name == self._candidate.name, "Not Python candidate"
204         # We can safely always allow prereleases here since PackageFinder
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/resolver.py](#)
Line number: 57
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
56         super().__init__()
57         assert upgrade_strategy in self._allowed_strategies
58
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/resolver.py](#)
Line number: 203
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
202     """
203     assert self._result is not None, "must call resolve() first"
204
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/resolution/resolverlib/resolver.py](#)
Line number: 304
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
303     difference = set(weights.keys()).difference(requirement_keys)
304     assert not difference, difference
305
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/direct_url_helpers.py](#)
Line number: 23
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
22         else:
23             assert isinstance(direct_url.info, DirectoryInfo)
24             requirement += direct_url.url
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/direct_url_helpers.py](#)
Line number: 44
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
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()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/direct_url_helpers.py](#)
Line number: 55
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
54         # with the VCS checkout.
55         assert requested_revision
56         commit_id = requested_revision
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/direct_url_helpers.py](#)
Line number: 61
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
60         # which we can inspect to find out the commit id.
61         assert source_dir
62         commit_id = vcs_backend.get_revision(source_dir)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/filesystem.py](#)
Line number: 21
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
20         assert os.path.isabs(path)
21
22
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311
Severity: LOW
Confidence: HIGH
CWE: [CWE-330](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/filesystem.py](#)
Line number: 96
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
95         for _ in range(10):
96             name = basename + "".join(random.choice(alphabet) for _ in range(6))
97             file = os.path.join(path, name)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/logging.py](#)
Line number: 151
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

150     if stderr:
151         assert _stderr_console is not None, "stderr rich console is missing!"
152         return _stderr_console

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/logging.py](#)

Line number: 154

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

153     else:
154         assert _stdout_console is not None, "stdout rich console is missing!"
155         return _stdout_console

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/logging.py](#)

Line number: 176

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

175     if getattr(record, "rich", False):
176         assert isinstance(record.args, tuple)
177         (rich_renderable,) = record.args

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/logging.py](#)

Line number: 178

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

177     (rich_renderable,) = record.args
178     assert isinstance(
179         rich_renderable, (ConsoleRenderable, RichCast, str)
180     ), f"{rich_renderable} is not rich-console-renderable"
181

```

hardcoded_password_string: Possible hardcoded password: "

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/misc.py](#)

Line number: 475

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```

474     user = "****"
475     password = ""
476     else:

```

hardcoded_password_string: Possible hardcoded password: ':****'

Test ID: B105

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-259](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/misc.py](#)

Line number: 478

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```

477     user = urllib.parse.quote(user)
478     password = ":****"
479     return f"{user}{password}@{netloc}"

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/setuptools_build.py](#)

Line number: 114**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
113     ) -> List[str]:
114         assert not (use_user_site and prefix)
115
```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/utils/subprocess.py](#)**Line number:** 4**More info:** https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
3     import shlex
4     import subprocess
5     from typing import Any, Callable, Iterable, List, Literal, Mapping, Optional, Union
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/utils/subprocess.py](#)**Line number:** 126**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
125     try:
126         proc = subprocess.Popen(
127             # Convert HiddenText objects to the underlying str.
128             reveal_command_args(cmd),
129             stdin=subprocess.PIPE,
130             stdout=subprocess.PIPE,
131             stderr=subprocess.STDOUT if not stdout_only else subprocess.PIPE,
132             cwd=cwd,
133             env=env,
134             errors="backslashreplace",
135         )
136     except Exception as exc:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/utils/subprocess.py](#)**Line number:** 146**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
145     if not stdout_only:
146         assert proc.stdout
147         assert proc.stdin
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/utils/subprocess.py](#)**Line number:** 147**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
146         assert proc.stdout
147         assert proc.stdin
148         proc.stdin.close()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/utils/subprocess.py](#)**Line number:** 161**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
160         if use_spinner:
161             assert spinner
162             spinner.spin()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/subprocess.py](#)
Line number: 184
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
183     if use_spinner:
184         assert spinner
185         if proc_had_error:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/temp_dir.py](#)
Line number: 146
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
145     if globally_managed:
146         assert _tempdir_manager is not None
147         _tempdir_manager.enter_context(self)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/temp_dir.py](#)
Line number: 151
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
150     def path(self) -> str:
151         assert not self._deleted, f"Attempted to access deleted path: {self._path}"
152         return self._path
```

tarfile_unsafe_members: tarfile.extractall used without any validation. Please check and discard dangerous members.

Test ID: B202
Severity: HIGH
Confidence: HIGH
CWE: [CWE-22](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/unpacking.py](#)
Line number: 243
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b202_tarfile_unsafe_members.html

```
242
243         tar.extractall(location, filter=pipe_filter)
244
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/unpacking.py](#)
Line number: 296
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
295         ensure_dir(os.path.dirname(path))
296         assert fp is not None
297         with open(path, "wb") as destfp:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_internal/utils/urls.py](#)
Line number: 23
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

22     """
23     assert url.startswith(
24         "file:"
25     ), f"You can only turn file: urls into filenames (not {url!r})"
26

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/vcs/git.py](#)

Line number: 224

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

223         # rev return value is always non-None.
224         assert rev is not None
225

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/vcs/git.py](#)

Line number: 487

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

486         if "://" not in url:
487             assert "file:" not in url
488             url = url.replace("git+", "git+ssh://")

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/vcs/subversion.py](#)

Line number: 65

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

64             if base == location:
65                 assert dirurl is not None
66                 base = dirurl + "/" # save the root url

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/vcs/subversion.py](#)

Line number: 169

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

168                 match = _svn_info_xml_url_re.search(xml)
169                 assert match is not None
170                 url = match.group(1)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)

Line number: 48

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

47             """Return whether an InstallRequirement should be built into a wheel."""
48             assert not req.constraint
49

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)

Line number: 53**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
52
53     assert req.source_dir
54
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)**Line number:** 83**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
82         # unless it points to an immutable commit hash.
83     assert not req.editable
84     assert req.source_dir
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)**Line number:** 84**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
83     assert not req.editable
84     assert req.source_dir
85     vcs_backend = vcs.get_backend_for_scheme(req.link.scheme)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)**Line number:** 86**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
85     vcs_backend = vcs.get_backend_for_scheme(req.link.scheme)
86     assert vcs_backend
87     if vcs_backend.is_immutable_rev_checkout(req.link.url, req.source_dir):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)**Line number:** 91**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
90
91     assert req.link
92     base, ext = req.link.splitext()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)**Line number:** 108**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
107     cache_available = bool(wheel_cache.cache_dir)
108     assert req.link
109     if cache_available and _should_cache(req):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)
Line number: 191
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
190     with TempDirectory(kind="wheel") as temp_dir:
191         assert req.name
192         if req.use_pep517:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)
Line number: 193
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
192         if req.use_pep517:
193             assert req.metadata_directory
194             assert req.pep517_backend
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)
Line number: 194
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
193             assert req.metadata_directory
194             assert req.pep517_backend
195             if global_options:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)
Line number: 295
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
294         for req in requirements:
295             assert req.name
296             cache_dir = _get_cache_dir(req, wheel_cache)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_internal/wheel_builder.py](#)
Line number: 315
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
314             req.local_file_path = req.link.file_path
315             assert req.link.is_wheel
316             build_successes.append(req)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/adapter.py](#)
Line number: 157
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
156             if request.method in self.invalidating_methods and resp.ok:
157                 assert request.url is not None
158                 cache_url = self.controller.cache_url(request.url)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 45**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
44     match = URI.match(uri)
45     assert match is not None
46     groups = match.groups()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 153**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
152     cache_url = request.url
153     assert cache_url is not None
154     cache_data = self.cache.get(cache_url)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 174**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
173     """
174     assert request.url is not None
175     cache_url = self.cache_url(request.url)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 222**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
221     time_tuple = parsedate_tz(headers["date"])
222     assert time_tuple is not None
223     date = calendar.timegm(time_tuple[:6])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 361**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
360     time_tuple = parsedate_tz(response_headers["date"])
361     assert time_tuple is not None
362     date = calendar.timegm(time_tuple[:6])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 381**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
380
381     assert request.url is not None
382     cache_url = self.cache_url(request.url)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 433**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
432             time_tuple = parsedate_tz(response_headers["date"])
433             assert time_tuple is not None
434             date = calendar.timegm(time_tuple[:6])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/controller.py](#)**Line number:** 480**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
479             """
480             assert request.url is not None
481             cache_url = self.cache_url(request.url)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/cachecontrol/heuristics.py](#)**Line number:** 140**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
139             time_tuple = parsedate_tz(headers["date"])
140             assert time_tuple is not None
141             date = calendar.timegm(time_tuple[:6])
```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/dependency_groups/_pip_wrapper.py](#)**Line number:** 4**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess](#)

```
3     import argparse
4     import subprocess
5     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/dependency_groups/_pip_wrapper.py](#)**Line number:** 12**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
11     def _invoke_pip(deps: list[str]) -> None:
12         subprocess.check_call([sys.executable, "-m", "pip", "install", *deps])
13
```

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.**Test ID:** B411**Severity:** HIGH**Confidence:** HIGH**CWE:** [CWE-20](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/compat.py](#)**Line number:** 42**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b411-import-xmlrpclib](#)

```
41     import httpplib
42     import xmlrpclib
43     import Queue as queue
```

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.

Test ID: B411

Severity: HIGH

Confidence: HIGH

CWE: [CWE-20](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/compat.py](#)

Line number: 81

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b411-import-xmlrpclib

```
80     import urllib.request as urllib2
81     import xmlrpc.client as xmlrpclib
82     import queue
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/compat.py](#)

Line number: 633

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
632     def cache_from_source(path, debug_override=None):
633         assert path.endswith('.py')
634         if debug_override is None:
```

hashlib: Use of weak MD5 hash for security. Consider usedforsecurity=False

Test ID: B324

Severity: HIGH

Confidence: HIGH

CWE: [CWE-327](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/database.py](#)

Line number: 1007

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html

```
1006         f.close()
1007         return hashlib.md5(content).hexdigest()
1008
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/index.py](#)

Line number: 11

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
10     import shutil
11     import subprocess
12     import tempfile
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/index.py](#)

Line number: 58

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
57         try:
58             rc = subprocess.check_call([s, '--version'], stdout=sink,
59                                         stderr=sink)
60             if rc == 0:
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/index.py](#)

Line number: 193

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```

192         stderr = []
193         p = subprocess.Popen(cmd, **kwargs)
194         # We don't use communicate() here because we may need to

```

hashlib: Use of weak MD5 hash for security. Consider usedforsecurity=False
Test ID: B324
Severity: HIGH
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/index.py](#)
Line number: 269
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html

```

268             file_data = f.read()
269             md5_digest = hashlib.md5(file_data).hexdigest()
270             sha256_digest = hashlib.sha256(file_data).hexdigest()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/locators.py](#)
Line number: 945
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

944             super(DistPathLocator, self).__init__(**kwargs)
945             assert isinstance(distpath, DistributionPath)
946             self.distpath = distpath

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/manifest.py](#)
Line number: 115
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

114             parent, _ = os.path.split(d)
115             assert parent not in ('', '/')
116             add_dir(dirs, parent)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/manifest.py](#)
Line number: 330
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

329             if _PYTHON_VERSION > (3, 2):
330                 assert pattern_re.startswith(start) and pattern_re.endswith(end)
331             else:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/manifest.py](#)
Line number: 342
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

341             prefix_re = self._glob_to_re(prefix)
342             assert prefix_re.startswith(start) and prefix_re.endswith(end)
343             prefix_re = prefix_re[len(start): len(prefix_re) - len(end)]

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/markers.py](#)
Line number: 77
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

76         else:
77             assert isinstance(expr, dict)
78             op = expr['op']

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/metadata.py](#)
Line number: 897
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

896     def _from_legacy(self):
897         assert self._legacy and not self._data
898         result = {

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/metadata.py](#)
Line number: 959
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

958
959     assert self._data and not self._legacy
960     result = LegacyMetadata()

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/scripts.py](#)
Line number: 301
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html

```

300
301         os.remove(dfname)
302     except Exception:
303         pass # still in use - ignore error
     else:

```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)
Line number: 21
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```

20     ssl = None
21     import subprocess
22     import sys

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)
Line number: 275
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

274     path = path.replace(os.path.sep, '/')
275     assert path.startswith(root)
276     return path[len(root):].lstrip('/')

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)

Line number: 362**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
361             entry = get_export_entry(s)
362             assert entry is not None
363             entries[k] = entry
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 389**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
388             entry = get_export_entry(s)
389             assert entry is not None
390             # entry.dist = self
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 539**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
538     def copy_stream(self, instream, outfile, encoding=None):
539         assert not os.path.isdir(outfile)
540         self.ensure_dir(os.path.dirname(outfile))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 599**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
598             else:
599                 assert path.startswith(prefix)
600                 diagpath = path[len(prefix):]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 648**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
647             """
648             assert self.record
649             result = self.files_written, self.dirs_created
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 665**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
664             if flist:
665                 assert flist == ['__pycache__']
666                 sd = os.path.join(d, flist[0])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)
Line number: 843
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
842         break
843     assert i is not None
844     return result
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)

Line number: 1107

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1106     def add(self, pred, succ):
1107         assert pred != succ
1108         self._preds.setdefault(succ, set()).add(pred)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)

Line number: 1112

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1111     def remove(self, pred, succ):
1112         assert pred != succ
1113         try:
```

tarfile_unsafe_members: tarfile.extractall used without any validation. Please check and discard dangerous members.

Test ID: B202

Severity: HIGH

Confidence: HIGH

CWE: [CWE-22](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)

Line number: 1285

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b202_tarfile_unsafe_members.html

```
1284     archive.extractall(dest_dir)
1285
1286
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)

Line number: 1317

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1316     def __init__(self, minval=0, maxval=100):
1317         assert maxval is None or maxval >= minval
1318         self.min = self.cur = minval
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)

Line number: 1325

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1324     def update(self, curval):
1325         assert self.min <= curval
1326         assert self.max is None or curval <= self.max
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 1326**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1325         assert self.min <= curval
1326         assert self.max is None or curval <= self.max
1327         self.cur = curval
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 1335**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1334     def increment(self, incr):
1335         assert incr >= 0
1336         self.update(self.cur + incr)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 1426**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1425     if len(rich_path_glob) > 1:
1426         assert len(rich_path_glob) == 3, rich_path_glob
1427         prefix, set, suffix = rich_path_glob
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/util.py](#)**Line number:** 1762**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
1761     def run_command(self, cmd, **kwargs):
1762         p = subprocess.Popen(cmd, stdout=subprocess.PIPE, stderr=subprocess.PIPE, **kwargs)
1763         t1 = threading.Thread(target=self.reader, args=(p.stdout, 'stdout'))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/version.py](#)**Line number:** 34**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
33         self._parts = parts = self.parse(s)
34         assert isinstance(parts, tuple)
35         assert len(parts) > 0
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/version.py](#)**Line number:** 35**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
34         assert isinstance(parts, tuple)
35         assert len(parts) > 0
36
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distlib/wheel.py](#)**Line number:** 433**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
432                     break
433             assert distinfo, '.dist-info directory expected, not found'
434
```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distro/distro.py](#)**Line number:** 37**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess](#)

```
36     import shlex
37     import subprocess
38     import sys
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distro/distro.py](#)**Line number:** 644**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
643         def __get__(self, obj: Any, owner: Type[Any]) -> Any:
644             assert obj is not None, f"call {self._fname} on an instance"
645             ret = obj.__dict__[self._fname] = self._f(obj)
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distro/distro.py](#)**Line number:** 1165**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
1164         cmd = ("lsb_release", "-a")
1165         stdout = subprocess.check_output(cmd, stderr=subprocess.DEVNULL)
1166         # Command not found or lsb_release returned error
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distro/distro.py](#)**Line number:** 1202**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
1201         cmd = ("uname", "-rs")
1202         stdout = subprocess.check_output(cmd, stderr=subprocess.DEVNULL)
1203         except OSError:
```

start_process_with_partial_path: Starting a process with a partial executable path**Test ID:** B607**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/distro/distro.py](#)**Line number:** 1213**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b607_start_process_with_partial_path.html](#)

```
1212         try:
1213             stdout = subprocess.check_output("oslevel", stderr=subprocess.DEVNULL)
1214             except (OSError, subprocess.CalledProcessError):
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603

Severity: LOW
Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/distro/distro.py](#)

Line number: 1213

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
1212         try:
1213             stdout = subprocess.check_output("oslevel", stderr=subprocess.DEVNULL)
1214         except (OSError, subprocess.CalledProcessError):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/msgpack/fallback.py](#)

Line number: 319

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
318     def feed(self, next_bytes):
319         assert self._feeding
320         view = _get_data_from_buffer(next_bytes)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/msgpack/fallback.py](#)

Line number: 384

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
383             break
384             assert isinstance(read_data, bytes)
385             self._buffer += read_data
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/msgpack/fallback.py](#)

Line number: 559

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
558             return self._ext_hook(n, bytes(obj))
559             assert typ == TYPE_IMMEDIATE
560             return obj
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/msgpack/fallback.py](#)

Line number: 754

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
753             data = obj.data
754             assert isinstance(code, int)
755             assert isinstance(data, bytes)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/msgpack/fallback.py](#)

Line number: 755

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
754             assert isinstance(code, int)
755             assert isinstance(data, bytes)
756             L = len(data)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_manylinux.py](#)
Line number: 96
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
95         version_string: str | None = os.confstr("CS_GNU_LIBC_VERSION")
96         assert version_string is not None
97         _, version = version_string.rsplit()
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_musllinux.py](#)
Line number: 11
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
10     import re
11     import subprocess
12     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_musllinux.py](#)
Line number: 52
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
51         return None
52     proc = subprocess.run([ld], stderr=subprocess.PIPE, text=True)
53     return _parse_musl_version(proc.stderr)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_musllinux.py](#)
Line number: 79
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
78     plat = sysconfig.get_platform()
79     assert plat.startswith("linux-"), "not linux"
80
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_tokenizer.py](#)
Line number: 123
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
122     """
123     assert self.next_token is None, (
124         f"Cannot check for {name!r}, already have {self.next_token!r}"
125     )
126     assert name in self.rules, f"Unknown token name: {name!r}"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_tokenizer.py](#)
Line number: 126
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
125      )
126      assert name in self.rules, f"Unknown token name: {name!r}"
127
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/_tokenizer.py](#)
Line number: 149
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
148      token = self.next_token
149      assert token is not None
150
```

hardcoded_password_string: Possible hardcoded password: 'with'

Test ID: B105
Severity: LOW
Confidence: MEDIUM
CWE: [CWE-259](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/licenses/_init_.py](#)
Line number: 90
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```
89      python_tokens.append("False")
90      elif token == "with":
91          python_tokens.append("or")
```

hardcoded_password_string: Possible hardcoded password: '('

Test ID: B105
Severity: LOW
Confidence: MEDIUM
CWE: [CWE-259](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/licenses/_init_.py](#)
Line number: 92
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html](#)

```
91      python_tokens.append("or")
92      elif token == "(" and python_tokens and python_tokens[-1] not in {"or", "and"}:
93          message = f"Invalid license expression: {raw_license_expression!r}"
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/licenses/_init_.py](#)
Line number: 100
More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval](#)

```
99      try:
100          invalid = eval(python_expression, globals(), locals())
101      except Exception:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/markers.py](#)
Line number: 143
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
142      ) -> str:
143          assert isinstance(marker, (list, tuple, str))
144
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/markers.py](#)
Line number: 204
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
203     if key == "extra":
204         assert isinstance(rhs, str), "extra value must be a string"
205         return (canonicalize_name(lhs), canonicalize_name(rhs))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/markers.py](#)

Line number: 222

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
221     for marker in markers:
222         assert isinstance(marker, (list, tuple, str))
223
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/markers.py](#)

Line number: 237

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
236             rhs_value = environment[environment_key]
237             assert isinstance(lhs_value, str), "lhs must be a string"
238             lhs_value, rhs_value = _normalize(lhs_value, rhs_value, key=environment_key)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/markers.py](#)

Line number: 241

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
240         else:
241             assert marker in ["and", "or"]
242             if marker == "or":
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/metadata.py](#)

Line number: 226

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
225             payload = msg.get_payload()
226             assert isinstance(payload, str)
227             return payload
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/metadata.py](#)

Line number: 232

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
231             bpayload = msg.get_payload(decode=True)
232             assert isinstance(bpayload, bytes)
233             try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/metadata.py](#)

Line number: 337

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
336         # a str, so we'll just assert here to make sure.
337         assert isinstance(h, (email.header.Header, str))
338
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/tags.py](#)

Line number: 11

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
10     import struct
11     import subprocess
12     import sys
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/tags.py](#)

Line number: 414

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
413             # instead of the real version.
414             version_str = subprocess.run(
415                 [
416                     sys.executable,
417                     "-s$",
418                     "-c",
419                     "import platform; print(platform.mac_ver()[0])",
420                 ],
421                 check=True,
422                 env={"SYSTEM_VERSION_COMPAT": "0"},
423                 stdout=subprocess.PIPE,
424                 text=True,
425             ).stdout
426             version = cast("AppleVersion", tuple(map(int, version_str.split(".")[:2])))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/packaging/version.py](#)

Line number: 497

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
496
497     assert not letter
498     if number:
```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pkg_resources/_init__.py](#)

Line number: 1714

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
1713             code = compile(source, script_filename, 'exec')
1714             exec(code, namespace, namespace)
1715         else:
```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pkg_resources/_init__.py](#)

Line number: 1725

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
1724     script_code = compile(script_text, script_filename, 'exec')
1725     exec(script_code, namespace, namespace)
1726
```

hardcoded_tmp_directory: Probable insecure usage of temp file/directory.

Test ID: B108

Severity: MEDIUM

Confidence: MEDIUM

CWE: [CWE-377](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/platformdirs/unix.py](#)

Line number: 182

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b108_hardcoded_tmp_directory.html

```
181             if not Path(path).exists():
182                 path = f"/tmp/runtime-{getuid()}" # noqa: S108
183             else:
```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/formatters/_init_.py](#)

Line number: 103

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
102         with open(filename, 'rb') as f:
103             exec(f.read(), custom_namespace)
104             # Retrieve the class `formattername` from that namespace
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)

Line number: 514

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
513         """Preprocess the token component of a token definition."""
514         assert type(token) is _TokenType or callable(token), \
515             f'token type must be simple type or callable, not {token!r}'
516         return token
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)

Line number: 531

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
530             else:
531                 assert False, f'unknown new state {new_state!r}'
532             elif isinstance(new_state, combined):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)

Line number: 538

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
537             for istate in new_state:
538                 assert istate != new_state, f'circular state ref {istate!r}'
539                 itokens.extend(cls._process_state(unprocessed,
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)

Line number: 546**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

545         for istate in new_state:
546             assert (istate in unprocessed or
547                     istate in ('#pop', '#push')), \
548                     'unknown new state ' + istate
549     return new_state

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 551**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

550     else:
551         assert False, f'unknown new state def {new_state!r}'
552

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 555**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

554     """Preprocess a single state definition."""
555     assert isinstance(state, str), f"wrong state name {state!r}"
556     assert state[0] != '#', f"invalid state name {state!r}"

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 556**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

555     assert isinstance(state, str), f"wrong state name {state!r}"
556     assert state[0] != '#', f"invalid state name {state!r}"
557     if state in processed:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 564**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

563     # it's a state reference
564     assert tdef != state, f"circular state reference {state!r}"
565     tokens.extend(cls._process_state(unprocessed, processed,

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 578**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

577     assert type(tdef) is tuple, f"wrong rule def {tdef!r}"
578
579

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 744**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
743             else:
744                 assert False, f"wrong state def: {new_state!r}"
745                 statetokens = tokendefs[statestack[-1]]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexer.py](#)**Line number:** 831**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
830             else:
831                 assert False, f"wrong state def: {new_state!r}"
832                 statetokens = tokendefs[ctx.stack[-1]]
```

exec_used: Use of exec detected.**Test ID:** B102**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/lexers/_init_.py](#)**Line number:** 154**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html](#)

```
153         with open(filename, 'rb') as f:
154             exec(f.read(), custom_namespace)
155             # Retrieve the class `lexername` from that namespace
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pygments/style.py](#)**Line number:** 79**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
78             return text
79             assert False, f"wrong color format {text!r}"
80
```

blacklist: Consider possible security implications associated with the subprocess module.**Test ID:** B404**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pyproject_hooks/_impl.py](#)**Line number:** 8**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess](#)

```
7     from os.path import join as pjoin
8     from subprocess import STDOUT, check_call, check_output
9     from typing import TYPE_CHECKING, Any, Iterator, Mapping, Optional, Sequence
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/pyproject_hooks/_impl.py](#)**Line number:** 83**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
82     check_call(cmd, cwd=cwd, env=env)
83
84
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.**Test ID:** B603

Severity: LOW
Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/pyproject_hooks/_impl.py](#)

Line number: 99

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html](#)

```
98
99     check_output(cmd, cwd=cwd, env=env, stderr=STDOUT)
100
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/requests/_init_.py](#)

Line number: 53

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
52     urllib3_version = urllib3_version.split(".")
53     assert urllib3_version != ["dev"] # Verify urllib3 isn't installed from git.
54
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/requests/_init_.py](#)

Line number: 63

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
62     # urllib3 >= 1.21.1
63     assert major >= 1
64     if major == 1:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/requests/_init_.py](#)

Line number: 65

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
64     if major == 1:
65         assert minor >= 21
66
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/requests/_init_.py](#)

Line number: 72

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
71     # chardet_version >= 3.0.2, < 6.0.0
72     assert (3, 0, 2) <= (major, minor, patch) < (6, 0, 0)
73     elif charset_normalizer_version:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/requests/_init_.py](#)

Line number: 77

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
76     # charset_normalizer >= 2.0.0 < 4.0.0
77     assert (2, 0, 0) <= (major, minor, patch) < (4, 0, 0)
78     else:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/requests/_internal_utils.py](#)
Line number: 45
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
44      """
45      assert isinstance(u_string, str)
46      try:
```

hashlib: Use of weak MD5 hash for security. Consider usedforsecurity=False

Test ID: B324
Severity: HIGH
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/requests/auth.py](#)
Line number: 148
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html

```
147          x = x.encode("utf-8")
148          return hashlib.md5(x).hexdigest()
149
```

hashlib: Use of weak SHA1 hash for security. Consider usedforsecurity=False

Test ID: B324
Severity: HIGH
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/requests/auth.py](#)
Line number: 156
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html

```
155          x = x.encode("utf-8")
156          return hashlib.sha1(x).hexdigest()
157
```

hashlib: Use of weak SHA1 hash for security. Consider usedforsecurity=False

Test ID: B324
Severity: HIGH
Confidence: HIGH
CWE: [CWE-327](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/requests/auth.py](#)
Line number: 205
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html

```
204
205      cnonce = hashlib.sha1(s).hexdigest()[:16]
206      if _algorithm == "MD5-SESS":
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/resolvelib/resolvers/resolution.py](#)
Line number: 529
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
528      return False
529      assert key is not None
530      for p in criteria[key].iter_parent():
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/_pick.py](#)
Line number: 13
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

12     """
13         assert values, "1 or more values required"
14         for value in values:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/_ratio.py](#)
Line number: 129
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

128     total_ratio = sum(ratios)
129     assert total_ratio > 0, "Sum of ratios must be > 0"
130

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/_win32_console.py](#)
Line number: 435
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

434
435     assert fore is not None
436     assert back is not None

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/_win32_console.py](#)
Line number: 436
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

435     assert fore is not None
436     assert back is not None
437

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/_win32_console.py](#)
Line number: 565
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

564     """
565         assert len(title) < 255, "Console title must be less than 255 characters"
566         SetConsoleTitle(title)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 365
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

364     if self.type == ColorType.TRUECOLOR:
365         assert self.triplet is not None
366         return self.triplet

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 368
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
367         elif self.type == ColorType.EIGHT_BIT:
368             assert self.number is not None
369             return EIGHT_BIT_PALETTE[self.number]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 371
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
370         elif self.type == ColorType.STANDARD:
371             assert self.number is not None
372             return theme.ansi_colors[self.number]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 374
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
373         elif self.type == ColorType.WINDOWS:
374             assert self.number is not None
375             return WINDOWS_PALETTE[self.number]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 377
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
376     else: # self.type == ColorType.DEFAULT:
377         assert self.number is None
378         return theme.foreground_color if foreground else theme.background_color
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 493
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
492         number = self.number
493         assert number is not None
494         fore, back = (30, 40) if number < 8 else (82, 92)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 499
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
498         number = self.number
499         assert number is not None
500         fore, back = (30, 40) if number < 8 else (82, 92)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 504
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
503         elif _type == ColorType.EIGHT_BIT:
504             assert self.number is not None
505             return ("38" if foreground else "48", "5", str(self.number))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 508
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
507             else: # self.standard == ColorStandard.TRUECOLOR:
508                 assert self.triplet is not None
509                 red, green, blue = self.triplet
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 520
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
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)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 546
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
545             if self.system == ColorSystem.TRUECOLOR:
546                 assert self.triplet is not None
547                 triplet = self.triplet
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 549
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
548             else: # self.system == ColorSystem.EIGHT_BIT
549                 assert self.number is not None
550                 triplet = ColorTriplet(*EIGHT_BIT_PALETTE[self.number])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 557
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
556             if self.system == ColorSystem.TRUECOLOR:
557                 assert self.triplet is not None
558                 triplet = self.triplet
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 560
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

559         else: # self.system == ColorSystem.EIGHT_BIT
560             assert self.number is not None
561             if self.number < 16:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/color.py](#)
Line number: 573
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

572     """Parse six hex characters in to RGB triplet."""
573     assert len(hex_color) == 6, "must be 6 characters"
574     color = ColorTriplet(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/console.py](#)
Line number: 1144
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1143
1144     assert count >= 0, "count must be >= 0"
1145     self.print(NewLine(count))

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/console.py](#)
Line number: 1920
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1919         offset -= 1
1920         assert frame is not None
1921         return frame.f_code.co_filename, frame.f_lineno, frame.f_locals

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/console.py](#)
Line number: 2180
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

2179     """
2180     assert (
2181         self.record
2182     ), "To export console contents set record=True in the constructor or instance"
2183

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/console.py](#)
Line number: 2236
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

2235     """
2236     assert (
2237         self.record
2238     ), "To export console contents set record=True in the constructor or instance"
2239     fragments: List[str] = []

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW

Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/live.py](#)
Line number: 65
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
64         ) -> None:
65             assert refresh_per_second > 0, "refresh_per_second must be > 0"
66             self._renderable = renderable
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311
Severity: LOW
Confidence: HIGH
CWE: [CWE-330](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/live.py](#)
Line number: 352
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
351             time.sleep(0.4)
352             if random.randint(0, 10) < 1:
353                 console.log(next(examples))
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311
Severity: LOW
Confidence: HIGH
CWE: [CWE-330](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/live.py](#)
Line number: 355
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
354             exchange_rate_dict[(select_exchange, exchange)] = 200 / (
355                 random.random() * 320) + 1
356         )
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/logging.py](#)
Line number: 142
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
141             exc_type, exc_value, exc_traceback = record.exc_info
142             assert exc_type is not None
143             assert exc_value is not None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/logging.py](#)
Line number: 143
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
142             assert exc_type is not None
143             assert exc_value is not None
144             traceback = Traceback.from_exception(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pip/_vendor/rich/pretty.py](#)
Line number: 198
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
197             console = console or get_console()
198             assert console is not None
199
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/pretty.py](#)

Line number: 203

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
202         if value is not None:
203             assert console is not None
204             builtins._ = None # type: ignore[attr-defined]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/pretty.py](#)

Line number: 516

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
515     )
516     assert self.node is not None
517     return self.node.check_length(start_length, max_length)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/pretty.py](#)

Line number: 522

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
521     node = self.node
522     assert node is not None
523     whitespace = self.whitespace
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/pretty.py](#)

Line number: 524

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
523     whitespace = self.whitespace
524     assert node.children
525     if node.key_repr:
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/pretty.py](#)

Line number: 661

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
660             rich_repr_result = obj.__rich_repr__()
661         except Exception:
662             pass
663
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/progress.py](#)

Line number: 1093

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
1092     ) -> None:
1093         assert refresh_per_second > 0, "refresh_per_second must be > 0"
1094         self._lock = RLock()
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/progress.py](#)

Line number: 1714

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random](#)

```
1713             time.sleep(0.01)
1714         if random.randint(0, 100) < 1:
1715             progress.log(next(examples))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/prompt.py](#)

Line number: 222

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
221     """
222     assert self.choices is not None
223     if self.case_sensitive:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/segment.py](#)

Line number: 171

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
170     text, style, control = self
171     assert cut >= 0
172
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/style.py](#)

Line number: 193

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random](#)

```
192         self._link_id = (
193             f"{randint(0, 999999)}{hash(self._meta)}" if (link or meta) else ""
194         )
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/style.py](#)

Line number: 243

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random](#)

```
242         style._meta = dumps(meta)
243         style._link_id = f"{randint(0, 999999)}{hash(style._meta)}"
244         style._hash = None
```

blacklist: Deserialization with the marshal module is possibly dangerous.

Test ID: B302

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-502](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/style.py](#)

Line number: 475

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b302-marsh](#)

```
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
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/style.py](#)

Line number: 490

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
489             style._link = self._link
490             style._link_id = f"{{randint(0, 999999)}}" if self._link else ""
491             style._null = False
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/style.py](#)

Line number: 642

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
641             style._link = self._link
642             style._link_id = f"{{randint(0, 999999)}}" if self._link else ""
643             style._hash = self._hash
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/style.py](#)

Line number: 688

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
687             style._link = link
688             style._link_id = f"{{randint(0, 999999)}}" if link else ""
689             style._hash = None
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/syntax.py](#)

Line number: 492

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
491             """Split tokens to one per line."""
492             assert lexer # required to make MyPy happy - we know lexer is not None at this poi
493
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/text.py](#)

Line number: 908

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
907             """
908             assert len(character) == 1, "Character must be a string of length 1"
909             if count:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/text.py](#)

Line number: 925

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
924     """
925         assert len(character) == 1, "Character must be a string of length 1"
926         if count:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/text.py](#)
Line number: 941
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
940     """
941         assert len(character) == 1, "Character must be a string of length 1"
942         if count:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich/text.py](#)
Line number: 1080
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1079     """
1080         assert separator, "separator must not be empty"
1081
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich traceback.py](#)
Line number: 326
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
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__)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_vendor/rich traceback.py](#)
Line number: 758
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
757             if excluded:
758                 assert exclude_frames is not None
759                 yield Text(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 324
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
323                 deduped_pairs.remove(pair)
324                 assert not deduped_pairs, deduped_pairs
325                 parameters = tuple(new_parameters)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.
Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)

Line number: 1429**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1428     def copy_with(self, params):
1429         assert len(params) == 1
1430         new_type = params[0]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 1780**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1779         if len(params) == 1 and not typing._is_param_expr(args[0]):
1780             assert i == 0
1781             args = (args,)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 1989**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1988         if len(params) == 1 and not _is_param_expr(args[0]):
1989             assert i == 0
1990             args = (args,)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 2714**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2713     def __typing_unpack_tuple_args__(self):
2714         assert self.__origin__ is Unpack
2715         assert len(self.__args__) == 1
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 2715**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2714         assert self.__origin__ is Unpack
2715         assert len(self.__args__) == 1
2716         arg, = self.__args__
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 2725**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2724     def __typing_is_unpack_typevartuple__(self):
2725         assert self.__origin__ is Unpack
2726         assert len(self.__args__) == 1
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 2726
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2725         assert self.__origin__ is Unpack
2726         assert len(self.__args__) == 1
2727         return isinstance(self.__args__[0], TypeVarTuple)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 2748
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2747     def __typing_unpacked_tuple_args__(self):
2748         assert self.__origin__ is Unpack
2749         assert len(self.__args__) == 1
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 2749
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2748     assert self.__origin__ is Unpack
2749     assert len(self.__args__) == 1
2750     arg, = self.__args__
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 2759
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2758     def __typing_is_unpacked_typevartuple__(self):
2759         assert self.__origin__ is Unpack
2760         assert len(self.__args__) == 1
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 2760
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
2759     assert self.__origin__ is Unpack
2760     assert len(self.__args__) == 1
2761     return isinstance(self.__args__[0], TypeVarTuple)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)
Line number: 3559
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
3558     def __new__(cls, typename, bases, ns):
3559         assert _NamedTuple in bases
3560         for base in bases:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 3630**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
3629     def _namedtuple_mro_entries(bases):
3630         assert NamedTuple in bases
3631         return (_NamedTuple,)
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.**Test ID:** B307**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 4284**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval](#)

```
4283     return_value = {key:
4284         value if not isinstance(value, str) else eval(value, globals, locals)
4285         for key, value in ann.items() }
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.**Test ID:** B307**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/typing_extensions.py](#)**Line number:** 4376**More info:** [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval](#)

```
4375     code = forward_ref.__forward_code__
4376     value = eval(code, globals, locals)
4377     forward_ref.__forward_evaluated__ = True
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/contrib/securetransport.py](#)**Line number:** 718**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
717     leaf = Security.SecTrustGetCertificateAtIndex(trust, 0)
718     assert leaf
719
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/contrib/securetransport.py](#)**Line number:** 722**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
721     certdata = Security.SecCertificateCopyData(leaf)
722     assert certdata
723
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/contrib/securetransport.py](#)**Line number:** 900**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
899     # See PEP 543 for the real deal.
900     assert not server_side
901     assert do_handshake_on_connect
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/contrib/securetransport.py](#)**Line number:** 901**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
900         assert not server_side
901         assert do_handshake_on_connect
902         assert suppress_ragged_eofs
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/contrib/securetransport.py](#)**Line number:** 902**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
901         assert do_handshake_on_connect
902         assert suppress_ragged_eofs
903
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/packages/backports/makefile.py](#)**Line number:** 23**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
22     reading = "r" in mode or not writing
23     assert reading or writing
24     binary = "b" in mode
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/packages/backports/makefile.py](#)**Line number:** 45**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
44     else:
45         assert writing
46         buffer = io.BufferedWriter(raw, buffering)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/packages/backports/weakref_finalize.py](#)**Line number:** 150**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
149                     sys.excepthook(*sys.exc_info())
150                     assert f not in cls._registry
151                 finally:
```

exec_used: Use of exec detected.**Test ID:** B102**Severity:** MEDIUM**Confidence:** HIGH**CWE:** [CWE-78](#)**File:** [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/packages/six.py](#)**Line number:** 787**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html](#)

```
786             _locs_ = _globals_
787             exec ("""exec _code_ in _globals_, _locs_""")
788
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/response.py](#)

Line number: 495

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
494         """
495         assert self._fp
496         c_int_max = 2 ** 31 - 1
```

try_except_pass: Try, Except, Pass detected.

Test ID: B110

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/util/connection.py](#)

Line number: 141

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```
140         has_ipv6 = True
141     except Exception:
142         pass
143
```

ssl_with_no_version: ssl.wrap_socket call with no SSL/TLS protocol version specified, the default SSLv23 could be insecure, possible security issue.

Test ID: B504

Severity: LOW

Confidence: MEDIUM

CWE: [CWE-327](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/util/ssl_.py](#)

Line number: 182

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b504_ssl_with_no_version.html](#)

```
181     }
182     return wrap_socket(socket, ciphers=self.ciphers, **kwargs)
183
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/util/ssltransport.py](#)

Line number: 120

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
119         reading = "r" in mode or not writing
120         assert reading or writing
121         binary = "b" in mode
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pip/_vendor/urllib3/util/ssltransport.py](#)

Line number: 142

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
141         else:
142             assert writing
143             buffer = io.BufferedWriter(raw, buffering)
```

hardcoded_tmp_directory: Probable insecure usage of temp file/directory.

Test ID: B108

Severity: MEDIUM

Confidence: MEDIUM

CWE: [CWE-377](#)

File: [/venv/lib/python3.13/site-packages/platformdirs/unix.py](#)

Line number: 182

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b108_hardcoded_tmp_directory.html](#)

```
181             if not Path(path).exists():
182                 path = f"/tmp/runtime-{getuid()}" # noqa: S108
183             else:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pluggy/_hooks.py](#)
Line number: 414
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
413         if specmodule_or_class is not None:
414             assert spec_opts is not None
415             self.set_specification(specmodule_or_class, spec_opts)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pluggy/_hooks.py](#)
Line number: 506
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
505     """
506     assert not self.is_historic(), (
507         "Cannot directly call a historic hook - use call_historic instead."
508     )
509     self._verify_all_args_are_provided(kwargs)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pluggy/_hooks.py](#)
Line number: 527
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
526     """
527     assert self._call_history is not None
528     kwargs = kwargs or {}
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pluggy/_hooks.py](#)
Line number: 547
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
546     :ref:`call_extra`."""
547     assert not self.is_historic(), (
548         "Cannot directly call a historic hook - use call_historic instead."
549     )
550     self._verify_all_args_are_provided(kwargs)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pluggy/_hooks.py](#)
Line number: 578
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
577     if self.is_historic():
578         assert self._call_history is not None
579         for kwargs, result_callback in self._call_history:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [./venv/lib/python3.13/site-packages/pluggy/_hooks.py](#)
Line number: 583
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
582             # XXX: remember firstresult isn't compat with historic
583             assert isinstance(res, list)
584             result_callback(res[0])
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pluggy/_manager.py](#)
Line number: 209
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
208         if name is None:
209             assert plugin is not None, "one of name or plugin needs to be specified"
210             name = self.get_name(plugin)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pluggy/_manager.py](#)
Line number: 211
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
210             name = self.get_name(plugin)
211             assert name is not None, "plugin is not registered"
212
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pluggy/_manager.py](#)
Line number: 225
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
224         if self._name2plugin.get(name):
225             assert name is not None
226             del self._name2plugin[name]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pluggy/_manager.py](#)
Line number: 336
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
335
336             assert hook.spec is not None
337             if hook.spec.warn_on_impl:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pluggy/_tracing.py](#)
Line number: 59
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
58         else:
59             assert isinstance(tags, tuple)
60             self._tags2proc[tags] = processor
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404
Severity: LOW
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pycparser/_init_.py](#)
Line number: 14
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess

```
13     import io
14     from subprocess import check_output
15     from .c_parser import CParser
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pycparser/_init_.py](#)

Line number: 42

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
41         # as \n for Python's purpose
42         text = check_output(path_list, universal_newlines=True)
43     except OSError as e:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ast_transforms.py](#)

Line number: 64

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
63     """
64     assert isinstance(switch_node, c_ast.Switch)
65     if not isinstance(switch_node.stmt, c_ast.Compound):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ast_transforms.py](#)

Line number: 160

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
159
160     assert isinstance(parent, c_ast.TypeDecl)
161     grandparent.type = node.type
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pycparser/c_generator.py](#)

Line number: 366

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
365             else:
366                 assert name == 'enum'
367                 members = None if n.values is None else n.values.enumerators
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pycparser/c_parser.py](#)

Line number: 158

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
157     def _pop_scope(self):
158         assert len(self._scope_stack) > 1
159         self._scope_stack.pop()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pycparser/c_parser.py](#)

Line number: 417

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
416         for decl in decls:
417             assert decl['decl'] is not None
418             if is_typedef:
```

hardcoded_password_string: Possible hardcoded password: 'struct'

Test ID: B105
Severity: LOW
Confidence: MEDIUM
CWE: [CWE-259](#)
File: [/venv/lib/python3.13/site-packages/pycparser/c_parser.py](#)
Line number: 478
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b105_hardcoded_password_string.html

```
477         """
478         if token == 'struct':
479             return c_ast.Struct
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pycparser/c_parser.py](#)
Line number: 1038
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1037     spec = p[1]
1038     assert 'typedef' not in spec['storage']
1039
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pycparser/plx/cpp.py](#)
Line number: 600
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
599     try:
600         result = eval(expr)
601     except Exception:
```

exec_used: Use of exec detected.

Test ID: B102
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pycparser/plx/lex.py](#)
Line number: 215
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
214     else:
215         exec('import %s' % tabfile)
216         lextab = sys.modules[tabfile]
```

exec_used: Use of exec detected.

Test ID: B102
Severity: MEDIUM
Confidence: HIGH
CWE: [CWE-78](#)
File: [/venv/lib/python3.13/site-packages/pycparser/plx/lex.py](#)
Line number: 1039
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
1038         pkgname = '.'.join(parts[:-1])
1039         exec('import %s' % pkgname)
1040         srcfile = getattr(sys.modules[pkgname], '__file__', '')
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/pycparser/plx/yacc.py](#)
Line number: 1525
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1524     def set_precedence(self, term, assoc, level):
1525         assert self.Productions == [None], 'Must call set_precedence() before add_production()'
1526         if term in self.Precedence:
```

blacklist: Use of possibly insecure function - consider using safer ast.literal_eval.

Test ID: B307

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 1562

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b307-eval

```
1561             try:
1562                 c = eval(s)
1563                 if (len(c) > 1):
```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 1982

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
1981         else:
1982             exec('import %s' % module)
1983             parsetab = sys.modules[module]
```

blacklist: Consider possible security implications associated with cPickle module.

Test ID: B403

Severity: LOW

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 2000

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
1999     try:
2000         import cPickle as pickle
2001     except ImportError:
```

blacklist: Consider possible security implications associated with pickle module.

Test ID: B403

Severity: LOW

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 2002

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
2001     except ImportError:
2002         import pickle
2003
```

blacklist: Consider possible security implications associated with cPickle module.

Test ID: B403

Severity: LOW

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 2850

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
2849     try:
2850         import cPickle as pickle
2851     except ImportError:
```

blacklist: Consider possible security implications associated with pickle module.

Test ID: B403

Severity: LOW

Confidence: HIGH

CWE: [CWE-502](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 2852

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b403-import-pickle

```
2851         except ImportError:
2852             import pickle
2853             with open(filename, 'wb') as outf:
```

exec_used: Use of exec detected.

Test ID: B102

Severity: MEDIUM

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/pycparser/ply/yacc.py](#)

Line number: 3254

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b102_exec_used.html

```
3253             pkgname = '.'.join(parts[:-1])
3254             exec('import %s' % pkgname)
3255             srcfile = getattr(sys.modules[pkgname], '__file__', '')
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/pytest_asyncio/plugin.py](#)

Line number: 213

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
212             _synchronize_async_fixture(fixturedef)
213             assert _is_asyncio_fixture_function(fixturedef.func)
214             processed_fixturedefs.add(fixturedef)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/client.py](#)

Line number: 347

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
346
347             assert self.state is CONNECTING
348             self.state = OPEN
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/exceptions.py](#)

Line number: 104

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
103             if self.sent is None:
104                 assert self.rcvd_then_sent is None
105                 return "no close frame received or sent"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/exceptions.py](#)

Line number: 107

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
106             else:
107                 assert self.rcvd_then_sent is None
108                 return f"sent {self.sent}; no close frame received"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/exceptions.py](#)

Line number: 111

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

110         if self.sent is None:
111             assert self.rcvd_then_sent is None
112             return f"received {self.rcvd}; no close frame sent"

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/exceptions.py](#)
Line number: 114
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

113     else:
114         assert self.rcvd_then_sent is not None
115         if self.rcvd_then_sent:

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/extensions/permESSAGE_deflate.py](#)
Line number: 48
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

47         assert remote_no_context_takeover in [False, True]
48         assert local_no_context_takeover in [False, True]
49

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/extensions/permESSAGE_deflate.py](#)
Line number: 49
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

48         assert remote_no_context_takeover in [False, True]
49         assert local_no_context_takeover in [False, True]
50         assert 8 <= remote_max_window_bits <= 15

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/extensions/permESSAGE_deflate.py](#)
Line number: 50
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

49         assert local_no_context_takeover in [False, True]
50         assert 8 <= remote_max_window_bits <= 15
51         assert 8 <= local_max_window_bits <= 15

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/extensions/permESSAGE_deflate.py](#)
Line number: 51
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

50         assert 8 <= remote_max_window_bits <= 15
51         assert 8 <= local_max_window_bits <= 15
52         assert "wbits" not in compress_settings

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/extensions/permESSAGE_deflate.py](#)
Line number: 52
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

51         assert 8 <= local_max_window_bits <= 15
52         assert "wbits" not in compress_settings
53

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/headers.py](#)

Line number: 92

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

91     match = _OWS_re.match(header, pos)
92     assert match is not None
93     return match.end()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/headers.py](#)

Line number: 223

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

222    # or with the end position of a regex match, we can't overshoot the end.
223    assert pos == len(header)
224

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/headers.py](#)

Line number: 584

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

583    # https://www.rfc-editor.org/rfc/rfc7617.html#section-2
584    assert ":" not in username
585    user_pass = f"{username}:{password}"

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/imports.py](#)

Line number: 26

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

25         level += 1
26         assert level < len(source), "importing from parent isn't supported"
27         module = __import__(source[level:], namespace, [name], level)

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/imports.py](#)

Line number: 64

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

63         assert not namespace_set & aliases_set, "namespace conflict"
64         assert not namespace_set & deprecated_aliases_set, "namespace conflict"
65

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/imports.py](#)

Line number: 65

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
64         assert not namespace_set & aliases_set, "namespace conflict"
65         assert not namespace_set & deprecated_aliases_set, "namespace conflict"
66         assert not aliases_set & deprecated_aliases_set, "namespace conflict"
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/imports.py](#)

Line number: 66

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
65         assert not namespace_set & deprecated_aliases_set, "namespace conflict"
66         assert not aliases_set & deprecated_aliases_set, "namespace conflict"
67
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/imports.py](#)

Line number: 71

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
70     def __getattr__(name: str) -> Any:
71         assert aliases is not None # mypy cannot figure this out
72         try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/imports.py](#)

Line number: 79

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
78
79         assert deprecated_aliases is not None # mypy cannot figure this out
80         try:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/legacy/async_timeout.py](#)

Line number: 228

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
227     def _reschedule(self) -> None:
228         assert self._state == _State.ENTER
229         deadline = self._deadline
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311

Severity: LOW

Confidence: HIGH

CWE: [CWE-330](#)

File: [/venv/lib/python3.13/site-packages/websockets/legacy/client.py](#)

Line number: 604

More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
603             if backoff_delay == self.BACKOFF_MIN:
604                 initial_delay = random.random() * self.BACKOFF_INITIAL
605                 self.logger.info(
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)

Line number: 324

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
323         waiter = self._drain_waiter
324         assert waiter is None or waiter.cancelled()
325         waiter = self.loop.create_future()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 354
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
353         # 4.1. The WebSocket Connection is Established.
354         assert self.state is State.CONNECTING
355         self.state = State.OPEN
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311
Severity: LOW
Confidence: HIGH
CWE: [CWE-330](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 858
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
857         while data is None or data in self.pings:
858             data = struct.pack("!I", random.getrandbits(32))
859
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 951
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
950         # Control may only reach this point in buggy third-party subclasses.
951         assert self.state is State.CONNECTING
952         raise InvalidState("WebSocket connection isn't established yet")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 1067
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1066         fragments.append(decoder.decode(frame.data, frame.fin))
1067         assert isinstance(max_size, int)
1068         max_size -= len(frame.data)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 1082
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
1081         fragments.append(frame.data)
1082         assert isinstance(max_size, int)
1083         max_size -= len(frame.data)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 1441
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```

1440             # have to set self.close_rcvd_then_sent.
1441             assert self.close_rcvd is None
1442             self.close_sent = close

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 1457
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

1456             """
1457             assert self.state is State.CLOSED
1458             exc = self.connection_closed_exc()

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 1530
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

1529         def pause_writing(self) -> None: # pragma: no cover
1530             assert not self._paused
1531             self._paused = True

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/protocol.py](#)
Line number: 1534
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

1533     def resume_writing(self) -> None: # pragma: no cover
1534         assert self._paused
1535         self._paused = False

```

try_except_pass: Try, Except, Pass detected.

Test ID: B110
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/server.py](#)
Line number: 255
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b110_try_except_pass.html](#)

```

254             self.transport.close()
255         except Exception: # pragma: no cover
256             pass
257

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/legacy/server.py](#)
Line number: 1082
More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```

1081             # unix_serve(path) must not specify host and port parameters.
1082             assert host is None and port is None
1083             create_server = functools.partial(

```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)
File: [/venv/lib/python3.13/site-packages/websockets/protocol.py](#)

Line number: 223**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
222     """
223         assert self.state is CLOSED, "connection isn't closed yet"
224         exc_type: Type[ConnectionClosed]
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/websockets/protocol.py](#)**Line number:** 593**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
592             # (The latter case cannot be handled in this Sans-I/O layer.)
593             assert (self.side is SERVER) == (self.eof_sent)
594             while not (yield from self.reader.at_eof()):
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/websockets/protocol.py](#)**Line number:** 646**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
645             if self.state is CLOSING:
646                 assert self.close_sent is not None
647                 self.close_rcvd_then_sent = False
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/websockets/protocol.py](#)**Line number:** 704**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
703         def send_eof(self) -> None:
704             assert not self.eof_sent
705             self.eof_sent = True
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/websockets/server.py](#)**Line number:** 544**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
543             if response.status_code == 101:
544                 assert self.state is CONNECTING
545                 self.state = OPEN
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [./venv/lib/python3.13/site-packages/websocketsstreams.py](#)**Line number:** 67**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
66             """
67             assert n >= 0
68             while len(self.buffer) < n:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/client.py](#)
Line number: 107
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
106         if self.response is None:
107             assert isinstance(event, Response)
108             self.response = event
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/client.py](#)
Line number: 219
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
218     else:
219         assert path is None # private argument, only set by unix_connect()
220
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/client.py](#)
Line number: 244
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
243             sock.settimeout(deadline.timeout())
244             assert path is not None # validated above -- this is for mpypy
245             sock.connect(path)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)
Line number: 350
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
349                 with self.send_context():
350                     assert self.send_in_progress
351                     self.protocol.send_continuation()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH
CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)
Line number: 357
More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
356                 with self.send_context():
357                     assert self.send_in_progress
358                     self.protocol.send_continuation()
```

blacklist: Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Test ID: B311
Severity: LOW
Confidence: HIGH
CWE: [CWE-330](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)
Line number: 457
More info: https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_calls.html#b311-random

```
456             while data is None or data in self.pings:
457                 data = struct.pack("!I", random.getrandbits(32))
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101
Severity: LOW
Confidence: HIGH

CWE: [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)**Line number:** 493**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
492     """
493     assert isinstance(event, Frame)
494     if event.opcode in DATA_OPCODES:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)**Line number:** 602**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
601             # This isn't expected to generate events.
602             assert not self.protocol.events_received()
603
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)**Line number:** 675**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
674             # it is certain that self.close_deadline is still None.
675             assert self.close_deadline is None
676             self.close_deadline = Deadline(self.close_timeout)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)**Line number:** 711**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
710             # original_exc is never set when wait_for_close is True.
711             assert original_exc is None
712             original_exc = TimeoutError("timed out while closing connection")
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)**Line number:** 736**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
735     """
736     assert self.protocol_mutex.locked()
737     for data in self.protocol.data_to_send():
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/connection.py](#)**Line number:** 755**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
754     """
755     assert self.protocol_mutex.locked()
756     if self.recv_events_exc is None:
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW

Confidence: HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)**Line number:** 104**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

103

104 assert self.message_complete.is_set()
105 self.message_complete.clear()**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)**Line number:** 111**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

110

111 assert not self.message_fetched.is_set()
112 self.message_fetched.set()**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)**Line number:** 115**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

114

115 self.chunks = []
116 assert self.chunks_queue is None**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)**Line number:** 172**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

171

172 assert self.message_complete.is_set()
173 self.message_complete.clear()**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)**Line number:** 179**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

178

179 assert not self.message_fetched.is_set()
180 self.message_fetched.set()**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101**Severity:** LOW**Confidence:** HIGH**CWE:** [CWE-703](#)**File:** [/venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)**Line number:** 182**More info:** [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

181

182 assert self.chunks == []
183 self.chunks_queue = None**assert_used:** Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.**Test ID:** B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)

Line number: 234

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

233

```
assert not self.message_complete.is_set()
self.message_complete.set()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)

Line number: 240

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

239

```
assert not self.message_fetched.is_set()
```

241

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/sync/messages.py](#)

Line number: 250

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

249

```
assert self.message_fetched.is_set()
```

251

```
self.message_fetched.clear()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/sync/server.py](#)

Line number: 158

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

157

```
if self.request is None:
    assert isinstance(event, Request)
    self.request = event
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/sync/server.py](#)

Line number: 440

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

439

```
sock.settimeout(deadline.timeout())
assert isinstance(sock, ssl.SSLSocket) # mypy cannot figure this out
sock.do_handshake()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/sync/server.py](#)

Line number: 460

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

459

```
# mypy doesn't know that select_subprotocol is immutable.
assert select_subprotocol is not None
# Ensure this function is only used in the intended context.
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/server.py](#)

Line number: 462

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
461             # Ensure this function is only used in the intended context.
462             assert protocol is connection.protocol
463             return select_subprotocol(connection, subprotocols)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/sync/server.py](#)

Line number: 479

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
478             assert create_connection is not None # help mypy
479             connection = create_connection()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/uri.py](#)

Line number: 53

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
52             return None
53             assert self.password is not None
54             return (self.username, self.password)
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [/venv/lib/python3.13/site-packages/websockets/uri.py](#)

Line number: 104

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html](#)

```
103             if username is not None:
104                 assert password is not None
105                 username = urllib.parse.quote(username, safe=DELIMS)
```

hashlib: Use of weak SHA1 hash for security. Consider usedforsecurity=False

Test ID: B324

Severity: HIGH

Confidence: HIGH

CWE: [CWE-327](#)

File: [/venv/lib/python3.13/site-packages/websockets/utils.py](#)

Line number: 32

More info: [https://bandit.readthedocs.io/en/1.8.6/plugins/b324_hashlib.html](#)

```
31             """
32             sha1 = hashlib.sha1((key + GUID).encode()).digest()
33             return base64.b64encode(sha1).decode()
```

blacklist: Consider possible security implications associated with the subprocess module.

Test ID: B404

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [/venv/lib/python3.13/site-packages/websockets/version.py](#)

Line number: 29

More info: [https://bandit.readthedocs.io/en/1.8.6/blacklists/blacklist_imports.html#b404-import-subprocess](#)

```
28         import re
29         import subprocess
30
```

start_process_with_partial_path: Starting a process with a partial executable path

Test ID: B607

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/websockets/version.py](#)

Line number: 40

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b607_start_process_with_partial_path.html

```
39         try:
40             description = subprocess.run(
41                 ["git", "describe", "--dirty", "--tags", "--long"],
42                 capture_output=True,
43                 cwd=root_dir,
44                 timeout=1,
45                 check=True,
46                 text=True,
47             ).stdout.strip()
48             # subprocess.run raises FileNotFoundError if git isn't on $PATH.
```

subprocess_without_shell_equals_true: subprocess call - check for execution of untrusted input.

Test ID: B603

Severity: LOW

Confidence: HIGH

CWE: [CWE-78](#)

File: [./venv/lib/python3.13/site-packages/websockets/version.py](#)

Line number: 40

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b603_subprocess_without_shell_equals_true.html

```
39         try:
40             description = subprocess.run(
41                 ["git", "describe", "--dirty", "--tags", "--long"],
42                 capture_output=True,
43                 cwd=root_dir,
44                 timeout=1,
45                 check=True,
46                 text=True,
47             ).stdout.strip()
48             # subprocess.run raises FileNotFoundError if git isn't on $PATH.
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/version.py](#)

Line number: 58

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
57             match = re.fullmatch(description_re, description)
58             assert match is not None
59             distance, remainder = match.groups()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/websockets/version.py](#)

Line number: 78

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
77             match = re.fullmatch(version_re, version)
78             assert match is not None
79             (commit,) = match.groups()
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/yaml/parser.py](#)

Line number: 185**More info:** https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
184     event = StreamEndEvent(token.start_mark, token.end_mark)
185     assert not self.states
186     assert not self.marks
```

assert_used: Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Test ID: B101

Severity: LOW

Confidence: HIGH

CWE: [CWE-703](#)

File: [./venv/lib/python3.13/site-packages/yaml/parser.py](#)

Line number: 186

More info: https://bandit.readthedocs.io/en/1.8.6/plugins/b101_assert_used.html

```
185     assert not self.states
186     assert not self.marks
187     self.state = None
```