

2025-11-01



quick reference for testing workflows and benchmark results.

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Test Commands

```
lstnumber# Run all tests
lstnumberpython -m pytest tests/ -v
lstnumber
lstnumber# Coverage report
lstnumberpython -m pytest --cov=src --cov-report=html
lstnumber
lstnumber# Benchmarks
lstnumberpython -m pytest tests/test_benchmarks/ --benchmark-only
```

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Test Statistics

- Total: 4,563 tests (257 files)
- Unit: 81% (3,678 tests)
- Integration: 15% (681 tests)
- System: 4% (182 tests)
- Runtime: 45 seconds (100% pass rate)

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Benchmark Results

Controller	Time ( $\mu s$ )
Classical SMC	23
Super-Twisting	31
Adaptive SMC	45
Hybrid Adaptive STA	62

Next: E028 Documentation Reference