



Prover Certifier™

Version 3.0, based on Prover Certifier™ PCERT module 1.2.

Prover Certifier™ produces formal verification-based safety evidence for safety-critical systems. With Prover Certifier™, you can ensure the correctness and reliability of your software, meeting the highest safety standards.

Thanks to formal verification that provides 100 percent certainty, you can obtain a safe product while still decreasing the time you spend on testing and review. Formal Verification is highly recommended by CENELEC.

Benefits

- Enhanced Safety.** Mitigate risks and enhance safety by rigorously verifying critical software components.
- Accelerated Certification.** Expedite the certification process with automated formal verification.
- Reproducible verification.** After software changes, ensure automatically that no requirement was violated.
- Documented verification activities.** Unlike manual verification, it is well documented what has been proved.

Key Features

- Formal Verification.** Prove that your system fulfills safety requirements.
- Sequential Equivalence.** Demonstrate the equivalence between model and code.
- Automated Certification.** Automatically produce safety evidence to include in your safety case.

Industry Standards Compliance

Approved by TÜV NORD as a CENELEC EN50128-compliant T2 tool for SIL 4 applications.

Interfaces

Prover Certifier™ is a command line tool that reads HLL models from files.

Translators to HLL are available from sHLL and all-purpose programming languages C and Ada, as well as from vendor-specific languages such as Westrace, Microlok, VPI/iVPI, VTL, SCADE.

Results are available as a text file receipt and an exit code.

Supported Platforms

- Linux Ubuntu 18.04 until April 30, 2025.
- Linux Ubuntu 20.04 until April 30, 2027.
- Linux Ubuntu 22.04 until April 30, 2029.

Support for additional platforms can be purchased.

Expert Services

Additional expert services can be provided, including training, analysis as a service, and best practices advice.