Frama-C is a software analysis platform for C programs, aiming at **formally** proving **safety** properties.

**STANCE** aims at extending Frama-C with:
- a C++ **front-end**
- ACSL++ **specifications**
- plug-ins for **security**

**Clang** provides us with
- an **AST** for C++
- type-checking and elaboration
- **extension points** for parsing ACSL++
- access to the typing environment for ACSL++

**ACSL** is a formal specification language for C programs. **ACSL++** incorporates support for object-oriented properties.

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http://frama-c.com/
http://STANCE-project.eu/