

Automatic Code Verification by Formal Analysis

SZILVÁSI, KRISZTIÁN
KRISZTIAN.SZILVASI.3@GMAIL.COM

FENYVESI, RÓBERT
FENYVESR@GMAIL.COM

DECEMBER 11, 2019



Project Information

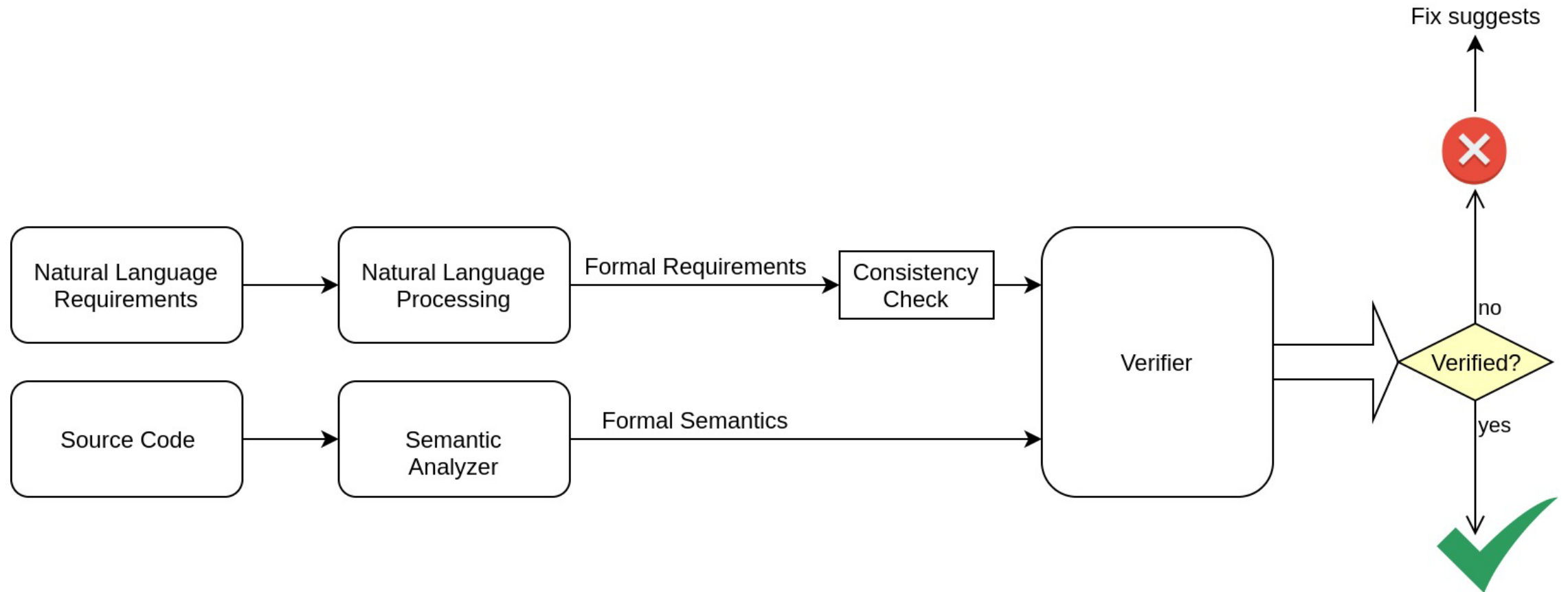
Project acronym: ACROSS

Project full title: Automatic Code Verification by Formal Analysis

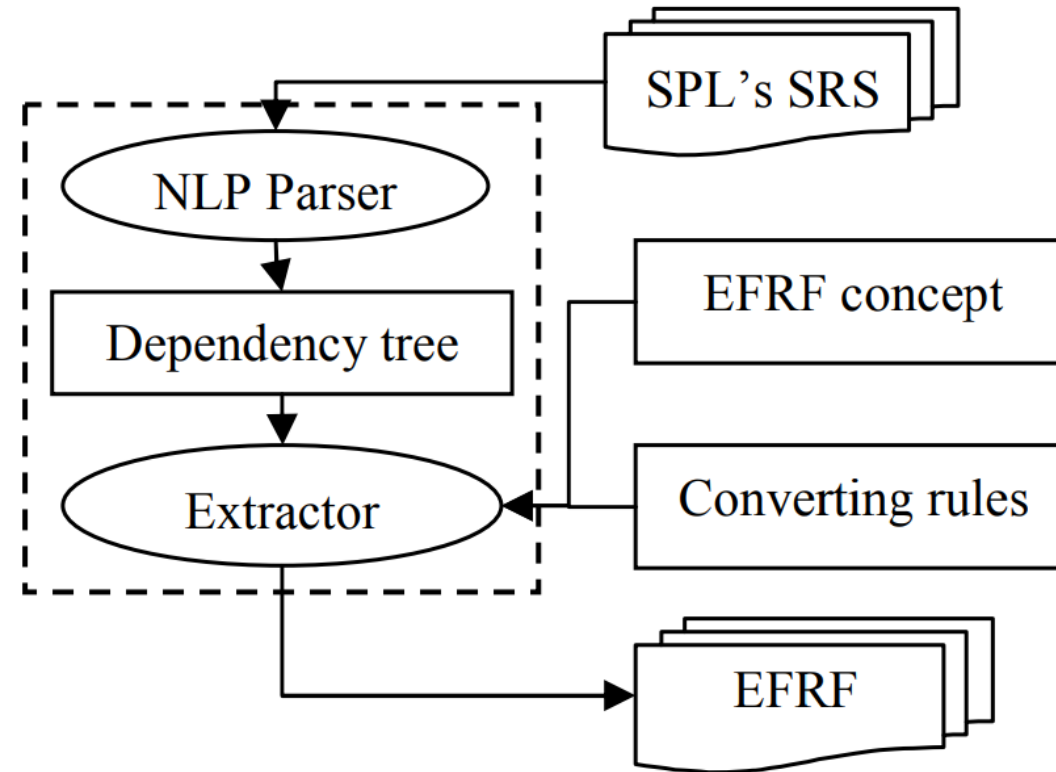
Grant agreement no.: FP7-199502

Date of preparation of Annex I (latest version): 2019.11.23

Project Architecture



SRS Analysis

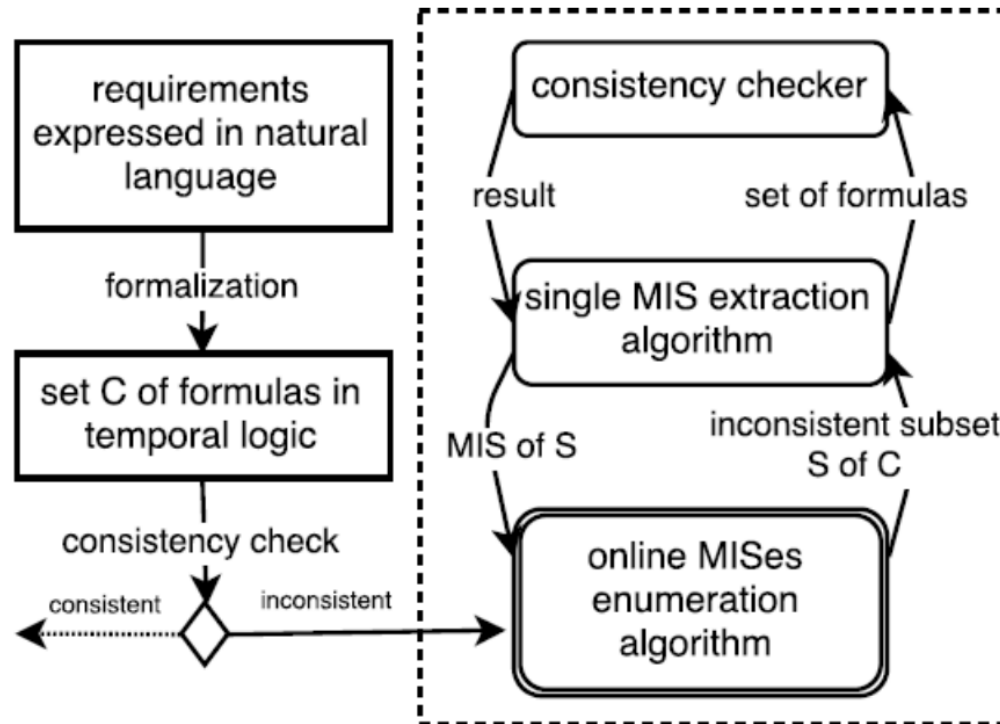


Semantic Analyzer

- State of the Art:
 - Charles McEwen Ellison III's "A Formal Semantics of C with Applications"
- Formal Analysis of MISRA C
- Problems with `_Complex` and `_Imaginary`

Consistency Check

- MIS Analysis



Verifier

Verified

Conclusions and future work

Forget and die

Do research never again 😊 😊 😊