



# International Fortran Conference 2021

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Organization: Fortran-Lang (LFortran)

Project: Finish AST Generation (GSoC'21)



# LFortran Parser

The tokenizer uses RE2C generator

GNU Bison based parser

Generalized LR parsing  
(Backtracking algorithm)

# My Contributions during GSoC



Parsed missing statements and constructs (coarrays, block data, entry, computed goto, sync statements, etc...)



Added missing AST nodes, visit() methods (fmt) and tests (trivia, enum, derived type, use statements, etc...)

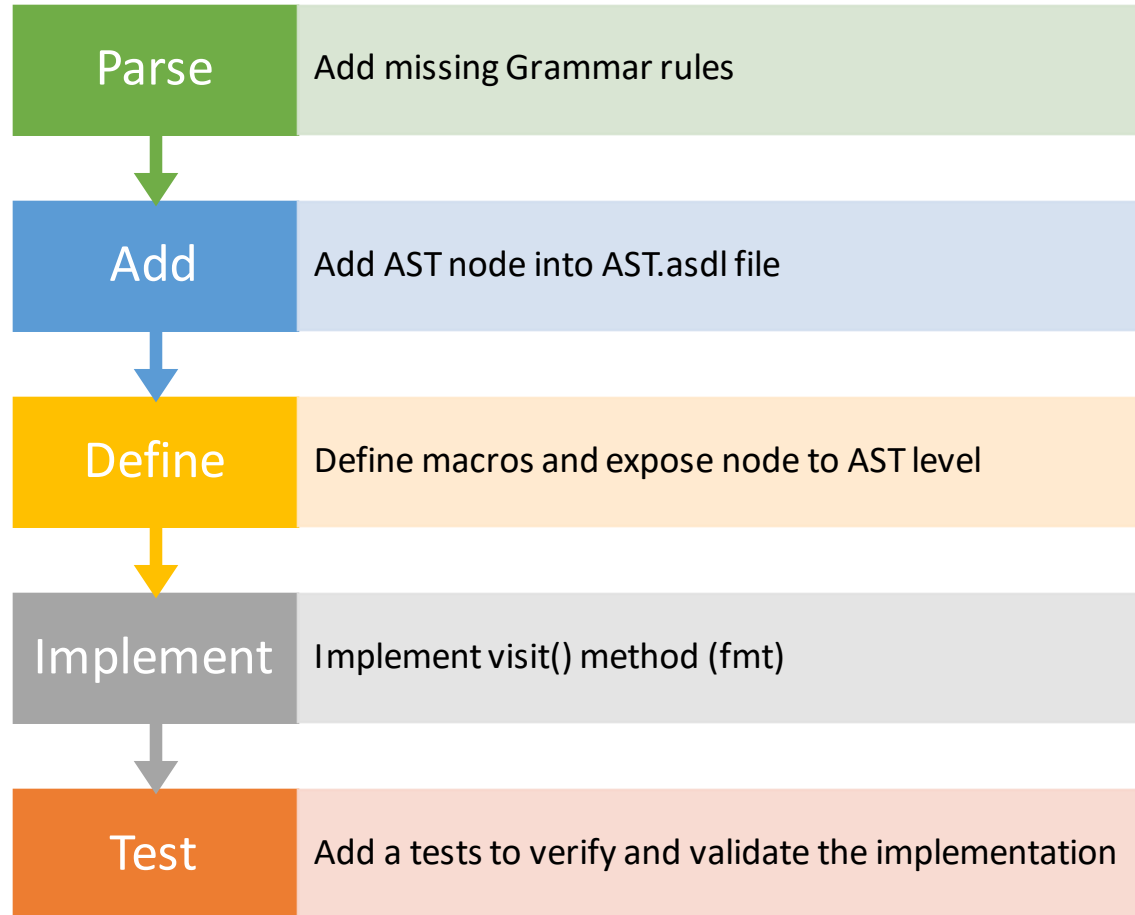


Provided parsing support for Fortran 2018 syntaxes



Fixed issues labelled 'fmt' and 'parser'

# Implementation



# Demo

[https://gitlab.com/lfortran/lfortran/-/merge\\_requests/1210/diffs](https://gitlab.com/lfortran/lfortran/-/merge_requests/1210/diffs)





Thank you