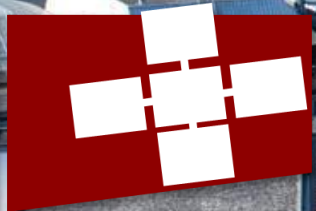


## DaFLEx Progress report



# Fortran merged!

master

dace / dace / frontend / fortran /

Go to file

t

Add file

Alexandru Calotoiu

testing new options to get CI to work

×

3143c90 · last week

History

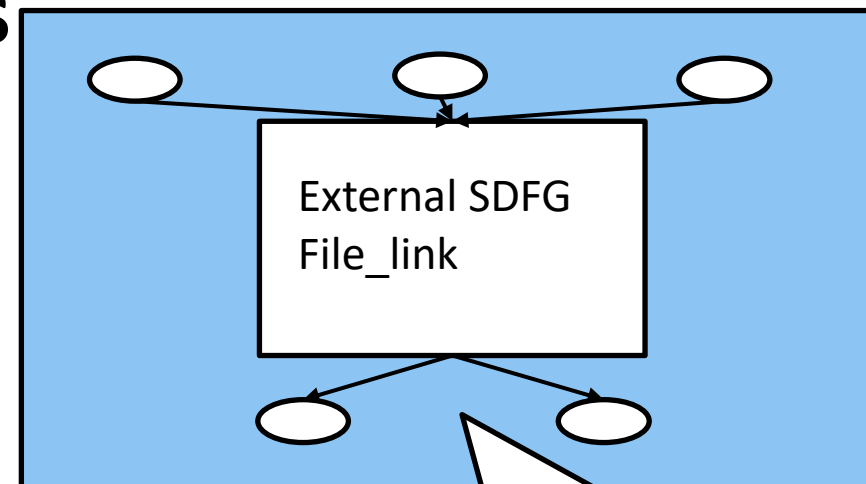
Name	Last commit message	Last commit date
..		
__init__.py	adding tests for fortran frontend	3 weeks ago
ast_components.py	testing new options to get CI to work	last week
ast_internal_classes.py	initial commit with commented, formatted core of the fortran...	3 weeks ago
ast_transforms.py	resolving comments	3 weeks ago
ast_utils.py	resolving comments	3 weeks ago
fortran_parser.py	testing new options to get CI to work	last week



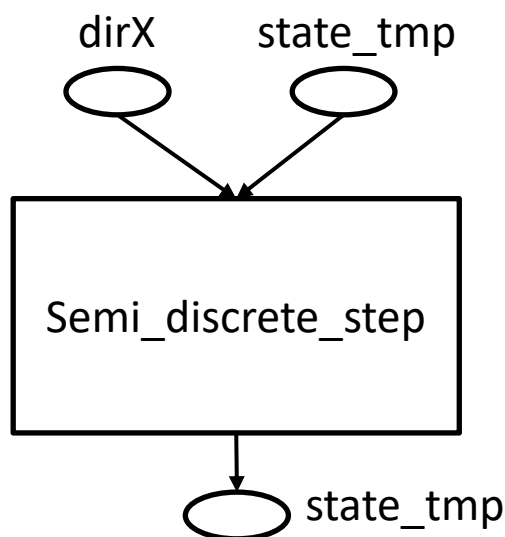
# External nested SDFGs – In progress

## ■ Goal – New workflow:

- create SDFGs for each function first
- do local optimization
- load them together (potentially hierarchically)
- do global optimization



```
call semi_discrete_step( state , dirX , state_tmp)
```



Not used

Read

Read &  
Written

“Slotting” the external SDFG in is not necessarily trivial:  
 What if the NestedSDFG was simplified and no longer uses all arguments?  
 We can leverage the lessons of the frontends!

# ICON and Cloverleaf

- Adding more Fortran features
- Increasing robustness

# The challenges of large codes

- **Partial compilation**

- Incomplete allocation information

*Placeholder sizes*

- Incomplete function space

*Placeholder NSDFGs*

- Incomplete structure information

*Partial types*

- Non-compilable SDFG

*Separate process into SDFG per file and multiple SDFG integration*