





```
DO imolecule_kind_a=1,nmolecule_kind
molecule_kind_a => molecule_kind_set(imolecule_kind_a)
CALL get_molecule_kind(molecule_kind=molecule_kind_a, molecule_list=molecule_list_a,&
     natom=natom_mol_a)
DO imolecule_a=1,SIZE(molecule_list_a)
   imol_a = imol_a + 1
   DO iatom mol a=1, natom mol a
      iatom_a = molecule_set(molecule_list_a(imolecule_a))%first_atom + &
          iatom_mol_a - 1
      imol_b = 0
      DO imolecule_kind_b=1,nmolecule_kind
         molecule_kind_b => molecule_kind_set(imolecule_kind_b)
         CALL get_molecule_kind(molecule_kind=molecule_kind_b,&
              molecule_list=molecule_list_b, natom=natom_mol_b)
         DO imolecule_b=1,SIZE(molecule_list_b)
            imol_b = imol_b + 1
            DO iatom mol b=1, natom mol b
               iatom_b = molecule_set(molecule_list_b(inclocate_b))%first_atom +&
                   iatom mol b - 1
               ! is this block actu
               IF (symmetric) THE
                 IF (iatom_a >
                   include_ab
                   include ab
                 END IF
               ELSE
                 include ab = .TRUE.
```



## Agenda

## Wednesday

## **Thursday**

Morning	Getting started with Fortran	Morning	Fortran arrays
Noon	Lunch break	Noon	Lunch break
Afternoon	Procedures and modules	Afternoon	Input/output

#### **Friday**

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Morning	Derived types	Coffee breaks at 10:00 and 14:30
	Generic procedures and procedure pointers	
Noon	Lunch break	
Afternoon	Language interoperability	
	Further features	

# Lectures are intertwined with hands-on exercises

#### Web resources

- CSC's Fortran95/2003 Guide (in Finnish) for free https://goo.gl/xE9847
- Fortran wiki: a resource hub for all aspects of Fortran programming http://fortranwiki.org
- GNU Fortran online documents http://gcc.gnu.org/onlinedocs/