

Data Assimilation Research Testbed Tutorial

Section 2: The DART Directory Tree

Version 1.0: June, 2005

The DART Code Tree

The main portion of DART is implemented as Fortran-90 modules.

Modules are contained in directories under the main DART directory.

DART also contains:

- Documentation (really!),

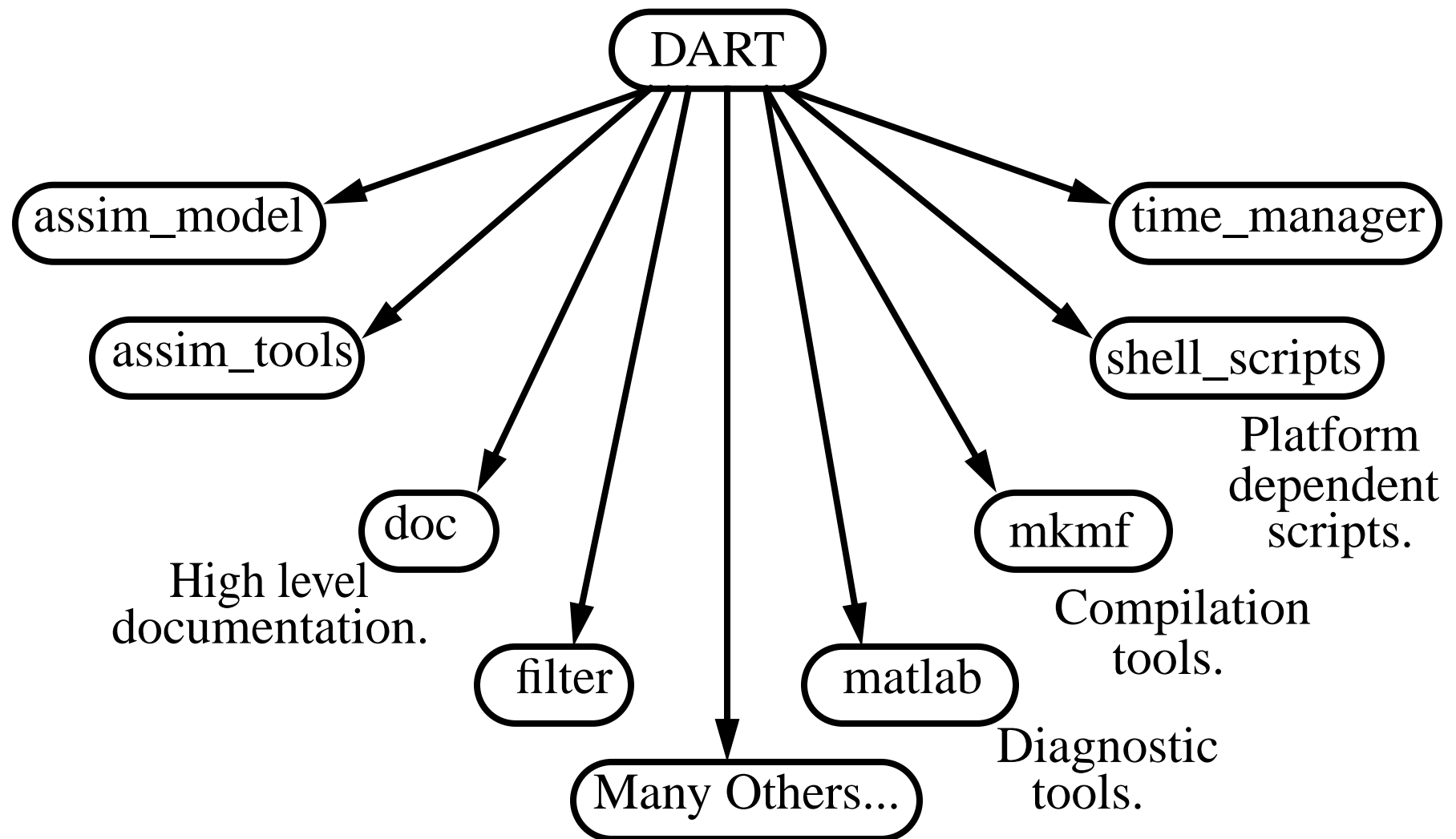
- Namelist control files,

- Compilation tools,

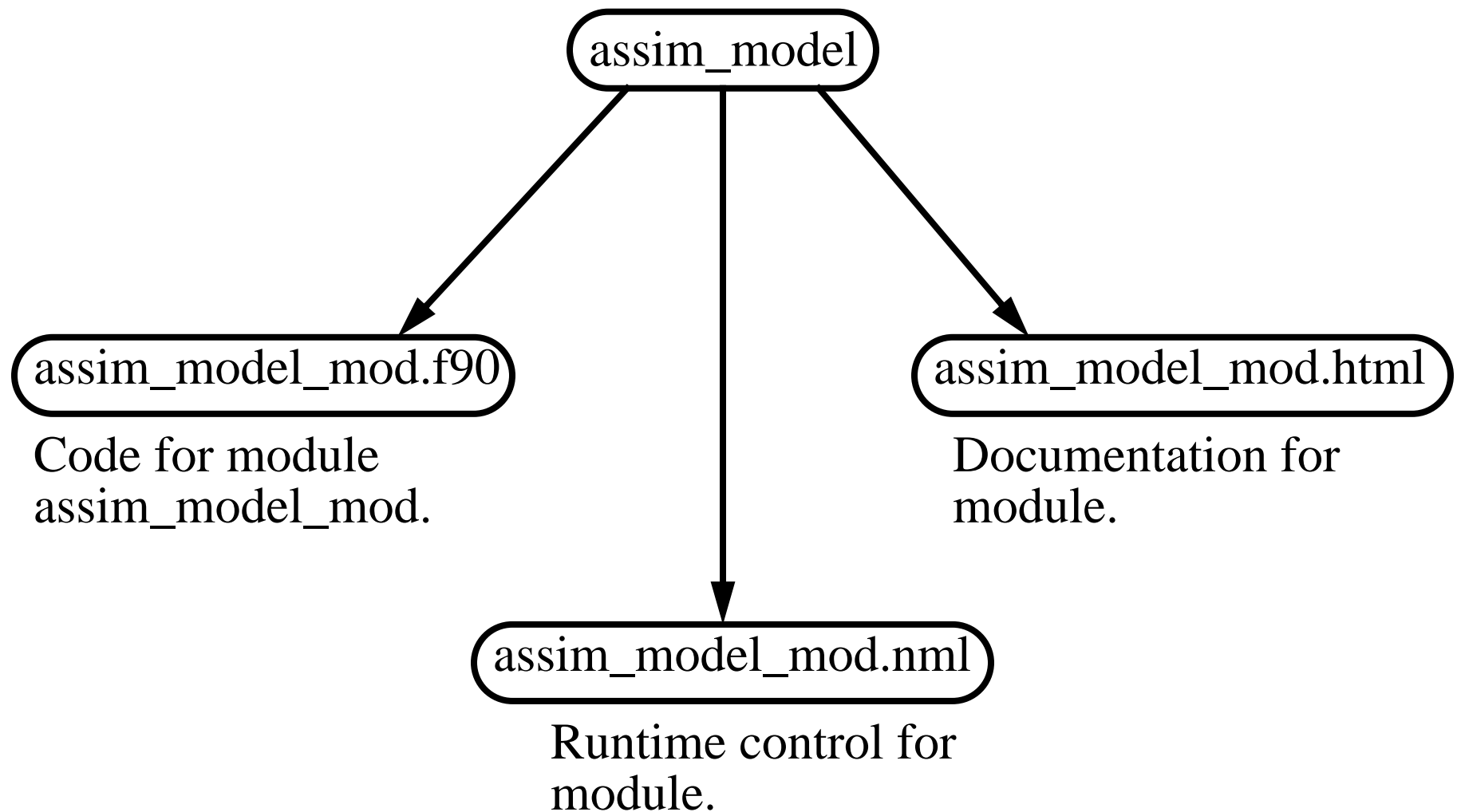
- Shell scripts for managing large applications,

- Diagnostic tools.

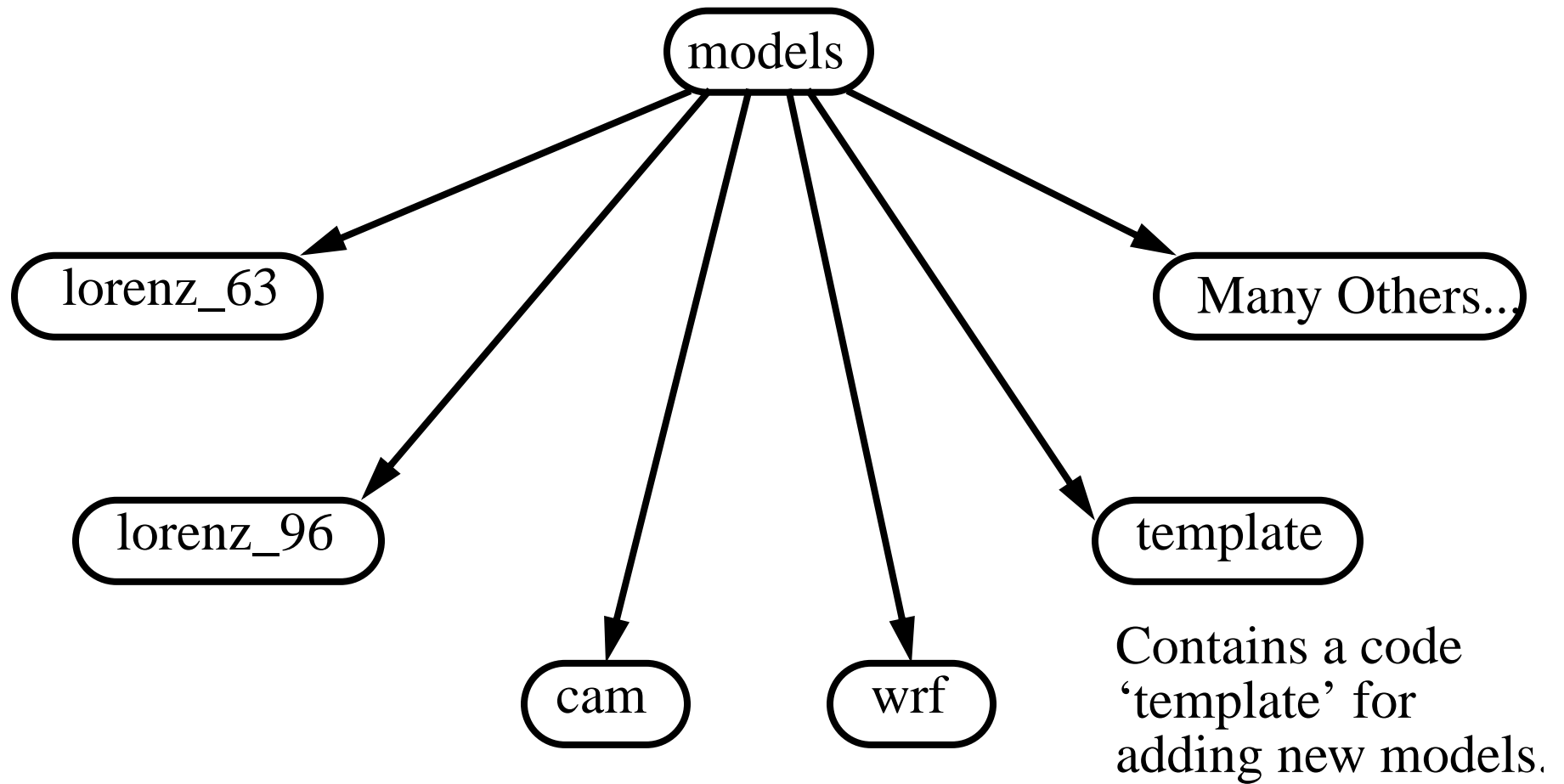
DART Top level directory structure:



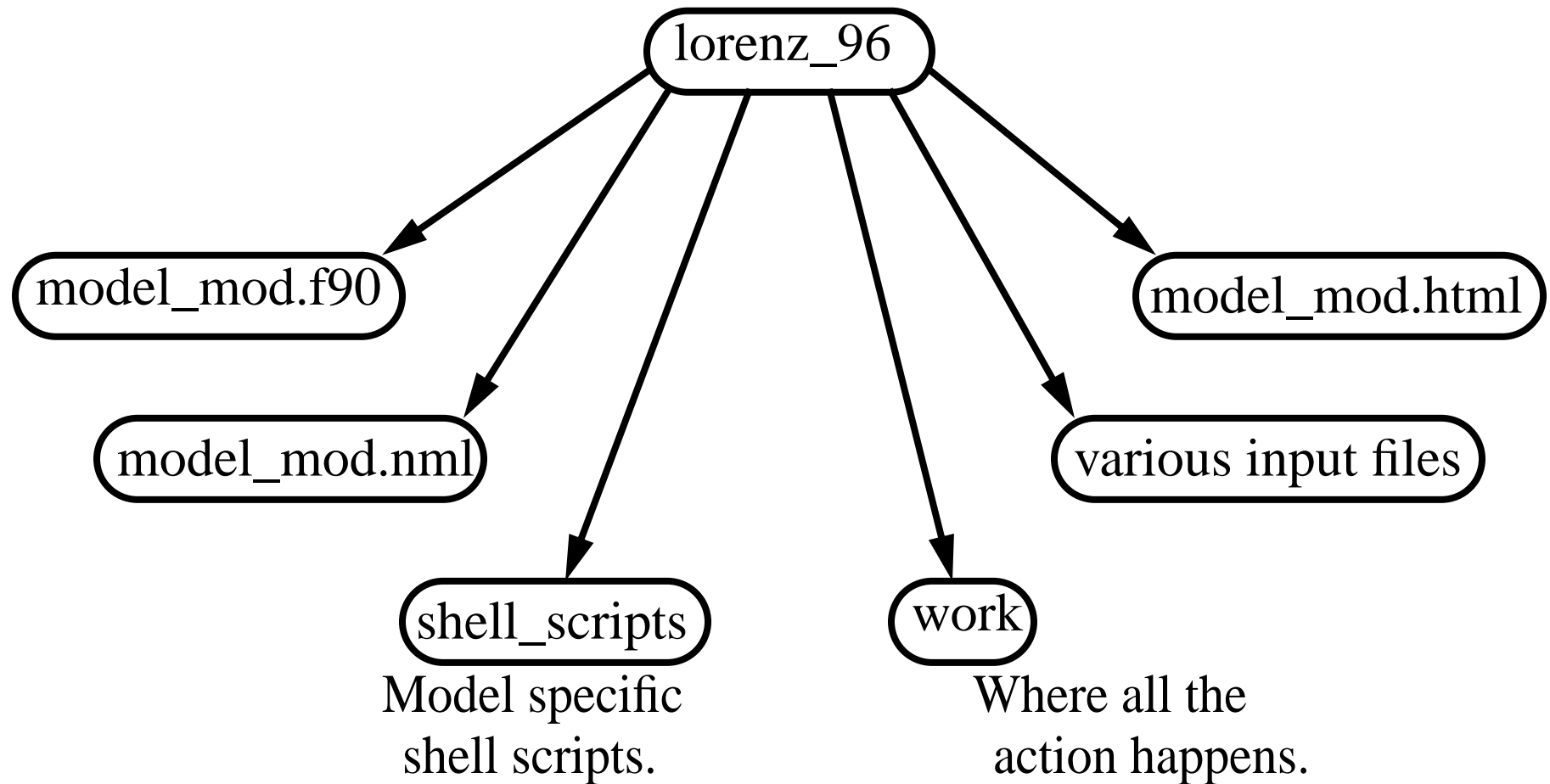
DART Second level for standard F90 module directory:



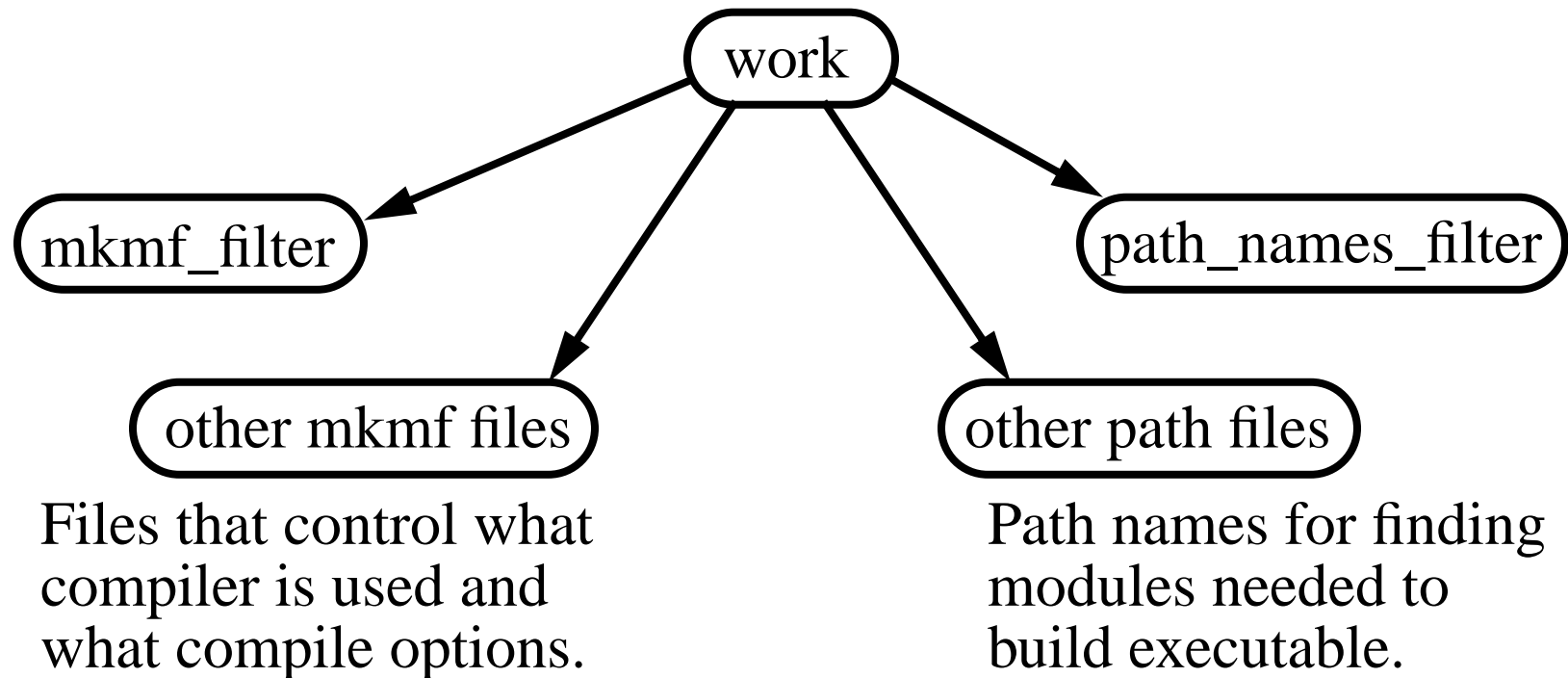
DART models directory:



DART models directory details:



DART model work directory details:



Executables are built and run in model work directories.

Makefiles and compiler output files reside here.

Input and output files generally reside here.

Lots of other junk files tend to accumulate here.

Coding style:

Look at ensemble adjustment filter observation increment subroutine.

In `assim_tools/assim_tools_mod.f90`.

Search for ‘subroutine `obs_increment_eakf`’.

Computes update mean (`new_mean`).

Computes ratio of updated standard deviation to prior.