List of all files.

---------- Files that are modified for different models

setup.c
An include file for cmain.c
Sets the model parameters
- molecule to be modeled
  - number of lines
  - number of levels
- number of lambda iterations
- accelerated lambda
- dust continuum
- photodissociation
- channel width
- velocity range
- minimum line width
- maximum line width
- radius, physical size of the model
- number of nested boxes
  - grid sizes for each box
  - cell size for each box
- number rays distributed in longitude and latitude
- output viewing angles
- number of cells in output grid
- cell size of output grid
- convolving beam

nlines_C.h
nlines_f77.h
These two header files specify the number of lines and levels that must match those specified in setup.c

define_model.c
Defines the density, temperature, velocity, and abundance for the model. Must be modified for each model.

---------- Files associated with the hydrodynamic model for L1544
read_lynds.c
Reads the hydrodynamic model for L1544

hydro_std_2E7
A binary file produced by a hydrodynamic code for L1544. Read by read_lynds.c and define_model.c. Used to define the density, temperature, velocity, and abundance copied to define the model of L1544.

---------- Output files

Cnotes0
Cnotes1
Output files produced by the C program. Cnotes0 is written by the parallel master and Cnotes1 written by parallel slave 1. Cnotes0 contains most of the useful information. Cnotes1 is mostly used for debugging.

Convergence0
Used to plot the convergence. Not normally used.

Fnotes0
Fnotes1
Output files produced by the fortran program. Fnotes0 is written by the parallel master and Fnotes1 written by parallel slave 1. If the program fails, these files sometimes record the reason at the end of the files.

ModelCube0
Binary output file containing the radiative transfer model. Read by the IDL program read_model.pro.

Search_history
Output containing model parameters. Only used for automatic model optimization.

---------- Header files for C programs and include files for Fortran that are not normally modified

definitions.h
cmain.h
global.h
The 3 above are not normally modified

---------- Makefile and executable

The Makefile needs to be modified for different installations.
Makefile
c.x

---------- C and Fortran files that are not normally modified

ch3cn.f
cmain.c
define_model.c
fion.f
fsub.f

hcn.f
lamdbh2o.f
nh3.f
rate.f
subcritical.f

There are additional files in the directory for the IDL programs that read the output. See the Directions_for_MOLLIE.