'src/gridio.c'

Wednesday, May 24, 2023 1:12 PM

Functions:



function initializeKeyword

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'initializeKeyword' src/*
             initializeKeyword(&desiredKwds[i]);
            initializeKeyword(&desiredKwds[i]);
            initializeKeyword(&desiredKwds[i]);
src/grid.c:
src/grid2hdf5.c:
                 initializeKeyword(&kwds[i]);
                  initializeKeyword(&kwds[i]);
src/grid2hdf5.c:
                  initializeKeyword(&kwds[i]);
src/grid2hdf5.c:
src/grid2hdf5.c:
                  initializeKeyword(&kwds[i]);
src/grid2hdf5.c:
                  initializeKeyword(&kwds[i]);
                  initializeKeyword(&kwds[i]);
src/grid2hdf5.c:
src/grid2hdf5.c:
                  initializeKeyword(&kwds[i]);
src/grid2hdf5.c:
                  initializeKeyword(&kwds[i]);
                  initializeKeyword(&kwds[i]);
src/grid2hdf5.c:
src/grid2hdf5.c:
                  initializeKeyword(&kwds[i]);
src/grid_aux.c:
src/grid_aux.c:
                 initializeKeyword(&primaryKwds[i]);
                 initializeKeyword(&primaryKwds[i]);
src/grid_aux.c:
                 initializeKeyword(&primaryKwds[i]);
src/gridio.c:initializeKeyword(struct keywordType *kwd){
Binary file src/gridio.gcno matches
src/gridio.h:void
                    initializeKeyword(struct keywordType*);
```

Located in:

- \circ Grid.c
- Grid2hdf5.c
- o Grid aux.c
- → Function removed, hcn.pop output remains unchanged.

function freeKeyword

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'freeKeyword' src/*
src/grid.c: freeKeywords(desiredKwds, numDesiredKwds);
src/grid_aux.c: freeKeywords(primaryKwds, numKwds);
src/gridio.c:freeKeyword(struct keywordType kwd){
src/gridio.c:freeKeywords(struct keywordType *kwds, const int numKwds){
src/gridio.c: freeKeyword(kwds[i]);
Binary file src/gridio.gcno matches
src/gridio.h:void freeKeywords(struct keywordType*, const int);
```

No changes made, only found in files I want to delete

function freeKeywords

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'freeKeywords' src/
*
src/grid.c: freeKeywords(desiredKwds, numDesiredKwds);
src/grid_aux.c: freeKeywords(primaryKwds, numKwds);
src/gridio.c:freeKeywords(struct keywordType *kwds, const int numKwds){
```

```
Binary file src/gridio.gcno matches src/gridio.h:void freeKeywords(struct keywordType*, const int);
```

Located in:

- Grid.c
- Grid_aux.c
- → Function removed, hcn.pop output remains unchanged.

function freeGridInfo

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'freeGridInfo' src/
*
src/grid.c: freeGridInfo(&gridInfoRead);
src/grid_aux.c: freeGridInfo(&gridInfo);
src/gridio.c:freeGridInfo(struct gridInfoType *gridInfo){
Binary file src/gridio.gcno matches
src/gridio.h:void freeGridInfo(struct gridInfoType*);
```

Located in:

- Grid.c
- Grid aux.c
- → Function removed, hcn.pop output remains unchanged.

function openFileForWrite

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'openFileForWrite' src/*
src/gridio.c:openFileForWrite(char *outFileName){
src/gridio.c: fptr = openFileForWrite(outFileName);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function constructLinkArrays

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'constructLinkArrays' src/*
src/gridio.c:constructLinkArrays(struct gridInfoType gridInfo, struct grid *gp, struct linkType
**links\
src/gridio.c: constructLinkArrays(gridInfo, gp, &links, &gridInfo.nLinks\
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function closeFile

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'closeFile' src/*
src/gridio.c:closeFile(lime_fptr fptr){
src/gridio.c: closeFile(fptr);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function closeAndFree

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'closeAndFree' src/*
src/gridio.c:closeAndFree(lime fptr fptr\
src/gridio.c:
                          closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
                         closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
src/gridio.c:
src/gridio.c:
src/gridio.c:
src/gridio.c:
                                closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
src/gridio.c:
src/gridio.c:
                      closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfo.nLinks);
src/gridio.c:
                          closeAndFree(fptr, firstNearNeigh, nnLinks, links, 0);
                         closeAndFree(fptr, firstNearNeigh, nnLinks, links, 0);
closeAndFree(fptr, firstNearNeigh, nnLinks, links, 0);
src/gridio.c:
src/gridio.c:
                         closeAndFree(fptr, firstNearNeigh, nnLinks, links, 0);
closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfoRead->nLinks);
closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfoRead->nLinks);
src/gridio.c:
src/gridio.c:
crc/aridio c:
```

```
src/gridio.c: closeAndFree(fptr, firstNearNeigh, nnLinks, links, gridInfoRead->nLinks); Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function writeKeywords

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'writeKeywords' src/*
src/grid2fits.c:writeKeywordsToFITS(fitsfile *fptr, struct keywordType *kwds\
Binary file src/grid2fits.gcno matches
src/grid2fits.h:void writeKeywordsToFITS(fitsfile*, struct keywordType*, const int);
src/grid2hdf5.c:writeKeywordsToHDF5(hid_t parent, struct keywordType *kwds\
src/grid2hdf5.h:void writeKeywordsToHDF5(hid_t parent, struct keywordType *kwds, const int numKeywords);
src/gridio.c:writeKeywords(lime_fptr fptr\
src/gridio.c: writeKeywordsToHDF5(fptr, kwds, numKeywords);
src/gridio.c: writeKeywordsToFITS(fptr, kwds, numKeywords);
src/gridio.c: status = writeKeywords(fptr, primaryKwds, numKeywords);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function writeGridTable

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'writeGridTable' src/*
src/gridio.c:writeGridTable(lime_fptr fptr\
src/gridio.c: status = writeGridTable(fptr, gridInfo, gp, firstNearNeigh, collPartNames,
dataFlags);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function writeNnIndicesTable

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'writeNnIndicesTable' src/*
src/gridio.c:writeNnIndicesTable(lime_fptr fptr\
src/gridio.c: status = writeNnIndicesTable(fptr, gridInfo, nnLinks);
Binary file src/gridio.gcno matches
(base) kdarnell@gs691-kdarnell sublimed1dc_profile %
```

No changes made, only found in files I want to delete

function writeLinksTable

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'writeLinksTable' src/*
src/gridio.c:writeLinksTable(lime_fptr fptr\
src/gridio.c: status = writeLinksTable(fptr, gridInfo, links);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function writePopsTable

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'writePopsTable' src/*
src/gridio.c:writePopsTable(lime_fptr fptr\
src/gridio.c: status = writePopsTable(fptr, gridInfo, i_us, gp);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function writeGrid

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'writeGrid' src/*
src/grid.c: writeGridIfRequired(par, *gp, NULL, 1);
src/grid.c: writeGridIfRequired(par, *gp, NULL, 2);
src/grid.c: writeGridIfRequired(par, *gp, NULL, 3); /* Sufficient information for a continuum image. */
src/grid.c: writeGridIfRequired(par, *gp, NULL, 4).
```

```
src/grid2fits.c:writeGridExtToFITS(fitsfile *fptr, struct gridInfoType gridInfo\)
Binary file src/grid2fits.gcno matches
                              writeGridExtToFITS(fitsfile*, struct gridInfoType, struct grid*,
src/grid2fits.h:void
unsigned int*, char**, const int);
src/grid2hdf5.h:void
                              writeGridExtToHDF5(hid_t file, struct gridInfoType, struct grid*,
unsigned int*, char**, const int);
src/grid_aux.c: status = writeGrid(outFileName\
src/grid_aux.c:void writeGridIfRequired(configInfo *par, struct grid *gp, molData *md, const int
dataStageI){
src/grid_aux.c: if(par->writeGridAtStage[dataStageI-1]){
src/grid_aux.c:
                     sprintf(message, "writeGrid at data stage %d returned with status %d",
dataStageI, status);
Binary file src/grid_aux.gcno matches
src/gridio.c:writeGridTable(lime_fptr fptr\
src/gridio.c: writeGridExtToHDF5(fptr, gridInfo, gp, firstNearNeigh, collPartNames, dataFlags);
src/gridio.c: writeGridExtToFITS(fptr, gridInfo, gp, firstNearNeigh, collPartNames, dataFlags);
src/gridio.c:writeGrid(char *outFileName, struct gridInfoType gridInfo\
src/gridio.c: status = writeGridTable(fptr, gridInfo, gp, firstNearNeigh, collPartNames,
dataFlags);
src/gridio.c:This is designed to be a generic function to read the grid data from file. It is
assumed that the data will be stored in several tables of different size, corresponding to the
different dimensionalities of the elements of the 'grid' struct. See 'writeGrid' for a
description.
Binary file src/gridio.gcno matches
src/gridio.h:int
                   writeGrid(char*, struct gridInfoType, struct keywordType*, const int, struct
grid*, char**, const int);
src/lime.h:void
                   writeGridIfRequired(configInfo*, struct grid*, molData*, const int);
                   writeGridToAscii(char *outFileName, struct grid *gp, const unsigned int
src/lime.h:void
nInternalPoints, const int dataFlags);
src/lime_config.h: _Bool
writeGridAtStage[NUM_GRID_STAGES],useVelFuncInRaytrace,edgeVelsAvailable;
src/predefgrid.c:void writeGridToAscii(char *outFileName, struct grid *gp, const unsigned int
nInternalPoints, const int dataFlags){
Binary file src/predefgrid.gcno matches
              par->writeGridAtStage[i] = 0;
src/run.c:
src/run.c:
                par->writeGridAtStage[i] = 1;
              writeGridIfRequired(&par, gp, NULL, 3);
src/run.c:
src/run.c:
              writeGridIfRequired(&par, gp, md, 5);
```

Located in:

- Grid_aux.c
- → Function removed, hcn.pop output remains unchanged.
- function openFileForRead

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'openFileForRead' src/*
src/gridio.c:openFileForRead(char *inFileName){
src/gridio.c: fptr = openFileForRead(inFileName);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function readKeywords

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'readKeywords' src/*
src/grid2fits.c:readKeywordsFromFITS(fitsfile *fptr, struct keywordType *kwds\
Binary file src/grid2fits.gcno matches
src/grid2fits.h:void readKeywordsFromFITS(fitsfile*, struct keywordType*, const int);
src/grid2hdf5.c:readKeywordsFromHDF5(hid_t parent, struct keywordType *kwds\
src/grid2hdf5.h:void readKeywordsFromHDF5(hid_t parent, struct keywordType *kwds, const int numKeywords);
src/gridio.c:readKeywords(lime_fptr fptr\
src/gridio.c: readKeywordsFromHDF5(fptr, kwds, numKeywords);
src/gridio.c: readKeywordsFromFITS(fptr, kwds, numKeywords);
src/gridio.c: status = readKeywords(fptr, primaryKwds, numKeywords);
Binary file src/gridio.gcno matches
```

No changes made, only found in files I want to delete

function readGridTable

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'readGridTable' src/*
src/gridio.c:readGridTable(lime_fptr fptr\
src/gridio.c: status = readGridTable(fptr, gridInfoRead, gp, &firstNearNeigh\
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function readLinksTable

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'readLinksTable' src/*
src/gridio.c:readLinksTable(lime_fptr fptr\
src/gridio.c: status = readLinksTable(fptr, gridInfoRead, *gp, &links, dataFlags); /* Sets
appropriate bits of dataFlags. */
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function readNnIndicesTable

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'readNnIndicesTable' src/*
src/gridio.c:readNnIndicesTable(lime_fptr fptr, struct linkType *links\
src/gridio.c: status = readNnIndicesTable(fptr, links, &nnLinks, gridInfoRead, dataFlags); /*
Sets appropriate bits of dataFlags. */
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function loadNnIntoGrid

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'loadNnIntoGrid' src/*
src/gridio.c:loadNnIntoGrid(unsigned int *firstNearNeigh, struct linkType **nnLinks\
src/gridio.c: loadNnIntoGrid(firstNearNeigh, nnLinks, *gridInfoRead, *gp); /* mallocs extension
'neigh' of struct g for each grid point. */
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function loadLinkVelsIntoGrid

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'loadLinkVelsIntoGrid' src/*
src/gridio.c:loadLinkVelsIntoGrid(unsigned int *firstNearNeigh, struct linkType **nnLinks\
src/gridio.c: loadLinkVelsIntoGrid(firstNearNeigh, nnLinks, *gridInfoRead, *gp);
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function checkPopsTableExists

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'checkPopsTableExists' src/*
src/gridio.c:checkPopsTableExists(lime_fptr fptr\
src/gridio.c: status = checkPopsTableExists(fptr, *numTables, &blockFound);
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function getNumPopsTables

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'getNumPopsTables' src/*
src/gridio.c:getNumPopsTables(lime_fptr fptr, unsigned short *numTables){
src/gridio.c: status = getNumPopsTables(fptr, &numTables);
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function readPopsTable

(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'readPopsTable' src/*
src/gridio.c:readPopsTable(lime_fptr fptr\
src/gridio.c: status = readPopsTable(fptr, i_us, *gp, gridInfoRead); /* Sets defaults for all
the fields under grid.mol. */
Binary file src/gridio.gcno matches

No changes made, only found in files I want to delete

function readGrid

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'readGrid' src/*
handled inside readGridExtFromFits(), but it may not be in future. The test here has no present functionality but saves trouble later if we change grid.x from an array to a pointer. */
src/grid.c:readGridWrapper(configInfo *par, struct grid **gp, char ***collPartNames, int
*numCollPartRead){
src/grid.c:
              status = readGrid(par->gridInFile, &gridInfoRead, desiredKwds\
                 readGridWrapper(par, gp, &collPartNames, &numCollPartRead);
Binary file src/grid.gcno matches
src/grid2fits.c:readGridExtFromFITS(fitsfile *fptr\
src/grid2fits.c: /* We have to do this here (as well after the call to readGrid()) because grid.x
is a pre-sized array rather than a pointer we can malloc. Later this should be changed to allow us
to define the sizes of all arrays in grid purely from the data in the file.
Binary file src/grid2fits.gcno matches
                                 readGridExtFromFITS(fitsfile*, struct gridInfoType*, struct grid**,
src/grid2fits.h:void
unsigned int**, char***, int*, int*);
src/grid2hdf5.c:readGridExtFromHDF5(hid_t file\
src/grid2hdf5.c: /* We have to do this here (as well after the call to readGrid()) because grid.x
is a pre-sized array rather than a pointer we can malloc. Later this should be changed to allow us
to define the sizes of all arrays in grid purely from the data in the file.
src/grid2hdf5.h:void readGridExtFromHDF5(hid_t file, struct gridInfoType*, struct grid**,
unsigned int**, char***, int*, int*);
src/gridio.c:readGridTable(lime_fptr fptr\
src/gridio.c: readGridExtFromHDF5(fptr, gridInfoRead, gp, firstNearNeigh\
src/gridio.c: readGridExtFromFITS(fptr, gridInfoRead, gp, firstNearNeigh\
src/gridio.c:readGrid(char *inFileName, struct gridInfoType *gridInfoRead\
src/gridio.c: status = readGridTable(fptr, gridInfoRead, gp, &firstNearNeigh\
Binary file src/gridio.gcno matches
src/gridio.h:int
                      readGrid(char*, struct gridInfoType*, struct keywordType*, const int, struct
grid**, char***, int*, int*);
```

- grid.c
- grid2hdf5.c (In comment)
- → Function removed, hcn.pop output remains unchanged.

function countDensityCols

```
(base) kdarnell@gs691-kdarnell sublimed1dc_profile % grep 'countDensityCols' src/*
src/grid2fits.c:countDensityColsFITS(char *inFileName){
Binary file src/grid2fits.gcno matches
src/grid2fits.h:int countDensityColsFITS(char *inFileName);
src/grid2hdf5.c:countDensityColsHDF5(char *inFileName){
src/grid2hdf5.h:int countDensityColsHDF5(char *inFileName);
src/gridio.c:countDensityCols(char *inFileName, int *numDensities){
src/gridio.c: *numDensities = countDensityColsHDF5(inFileName);
src/gridio.c: *numDensities = countDensityColsFITS(inFileName);
Binary file src/gridio.gcno matches
src/gridio.h:int
                    countDensityCols(char*, int*);
src/run.c:#include "gridio.h" /* For countDensityCols() */
src/run.c:
                status = countDensityCols(par->gridInFile, &(par->numDensities));
src/run.c:
                    snprintf(message, STR_LEN_1, "countDensityCols() status return %d", status);
```

- Run.c
- → Function removed, hcn.pop output remains unchanged.

The only src files that now contain references to the above functions are gridio.c, gridio.h, grid2fits.c, grid2fits.h