SParse

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Chapter 3

Class Documentation

3.1 BTree Struct Reference

Public Attributes

- void * pool
- Node * root
- · unsigned int depth
- unsigned short int nbObjects
- · unsigned short int nbNodes
- unsigned int order
- · unsigned int nodeSize

The documentation for this struct was generated from the following files:

- $\bullet \ \ /home/thomas/Projects/SParse-master/SParse/src/CommonLib/BTree/BTree.h$
- $\bullet \ / home/thomas/Projects/SParse-master/SParse/src/CommonLib/include/BTree.h$

3.2 Class Struct Reference

Public Attributes

- · Constructor f_new
- · Destructor f delete
- Copy_Operator f_copy
- Comp_Operator f_comp
- Printer f_print

The documentation for this struct was generated from the following files:

- $\bullet \ / home/thomas/Projects/SParse-master/SParse/src/CommonLib/include/Class.h$
- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/Object/Class.h

3.3 Declarator Struct Reference

Public Attributes

- DeclaratorType type
- DeclaratorScope scope
- char * name

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/C89Grammar/Declarator.c

3.4 FileDesc Class Reference

Public Member Functions

```
    PUBLIC FileDesc * FileDesc_new ()
        TBD.
    PUBLIC void FileDesc_delete (FileDesc *this)
        TBD.
    PUBLIC FileDesc * FileDesc_copy (FileDesc *this)
        TBD.
    PUBLIC void FileDesc_setFullName (FileDesc *this, String *fullName)
        TBD.
    PUBLIC String * FileDesc_getFullName (FileDesc *this)
        TBD.
    PUBLIC String * FileDesc_getName (FileDesc *this)
        TBD.
    PUBLIC String * FileDesc_load (FileDesc *this)
        Load the content of a file.
```

Public Attributes

- Object object
- String * name
- String * fullName

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/FileMgr/FileDesc.c

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3.5 Filelo Struct Reference

Public Attributes

- FILE * **f**
- · int status

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/Filelo/Filelo.c

3.6 FileMgr Class Reference

Public Member Functions

PUBLIC void FileMgr_delete (FileMgr *this)

Delete an instance of the class FileMgr.

PUBLIC FileMgr * FileMgr_copy (FileMgr *this)

Copy an instance of the class FileMgr.

PUBLIC FileMgr * FileMgr_getRef ()

Get a reference to the singleton instance of FileMgr.

• PUBLIC unsigned int FileMgr_setRootLocation (FileMgr *this, const char *location)

Set the root location.

PUBLIC char * FileMgr_getRootLocation (FileMgr *this)

TBD.

PUBLIC unsigned int FileMgr addDirectory (FileMgr *this, const char *directoryName)

Add all files in the given directory to the list of managed files.

• PUBLIC String * FileMgr_addFile (FileMgr *this, const char *fileName)

Add a files to the list of managed files.

• PUBLIC String * FileMgr_load (FileMgr *this, const char *fileName)

Load a managed file into a String. @parameter File Name.

• PUBLIC List * FileMgr_filterFiles (FileMgr *this, const char *pattern)

TBD.

Public Attributes

- Object object
- List * files
- · List * directories
- · char * separator
- String * rootLocation

3.6.1 Member Function Documentation

3.6.1.1 FileMgr_addDirectory()

Add all files in the given directory to the list of managed files.

Returns

Status.

3.6.1.2 FileMgr_addFile()

Add a files to the list of managed files.

Returns

Status.

3.6.1.3 FileMgr_copy()

Copy an instance of the class FileMgr.

Returns

New instance

3.6.1.4 FileMgr_filterFiles()

TBD.

Returns

TBD

3.6.1.5 FileMgr_getRef()

```
PUBLIC FileMgr * FileMgr_getRef ( )
```

Get a reference to the singleton instance of FileMgr.

Returns

Reference to the singleton.

3.6.1.6 FileMgr_getRootLocation()

TBD.

Returns

Status.

3.6.1.7 FileMgr_load()

Load a managed file into a String.

@parameter File Name.

Returns

Content of file.

3.6.1.8 FileMgr_setRootLocation()

Set the root location.

Returns

Status.

The documentation for this class was generated from the following file:

/home/thomas/Projects/SParse-master/SParse/src/AppliLib/FileMgr/FileMgr.c

3.7 FileReader Class Reference

Public Member Functions

```
• PUBLIC FileReader * FileReader_new (FileDesc *fileDesc)
```

Create a new FileReader object.

PUBLIC void FileReader_delete (FileReader *this)

Delete an instance of a FileReader object.

PUBLIC FileReader * FileReader_copy (FileReader *this)

Copy an instance of a FileReader object.

• PUBLIC char * FileReader_getBuffer (FileReader *this)

Returns the buffer of a FileReader object.

• PUBLIC String * FileReader_getName (FileReader *this)

Returns the name of a FileReader object.

• PUBLIC char * FileReader_addFile (FileReader *this, String *fileName)

Add a new file buffer for filename.

Public Attributes

- Object object
- List * buffers
- FileDesc * fileDesc
- String * currentBuffer
- List * preferredDirs

3.7.1 Member Function Documentation

3.7.1.1 FileReader_addFile()

Add a new file buffer for filename.

Returns

File buffer

3.7.1.2 FileReader_copy()

Copy an instance of a FileReader object.

Returns

New instance

3.7.1.3 FileReader_getBuffer()

Returns the buffer of a FileReader object.

Returns

Buffer of characters

3.7.1.4 FileReader_getName()

Returns the name of a FileReader object.

Returns

File name

3.7.1.5 FileReader_new()

Create a new FileReader object.

Returns

Created FileReader object.

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/FileReader/FileReader.c

3.8 Grammar2 Class Reference

Public Member Functions

```
    PUBLIC Grammar2 * Grammar2_new (FileReader *fr, SdbMgr *sdbMgr)
```

Create an instance of the class Grammar2.

PUBLIC void Grammar2_delete (Grammar2 *this)

Delete an instance of the class Grammar2.

• PUBLIC Grammar2 * Grammar2_copy (Grammar2 *this)

Copy an instance of the class Grammar2.

Public Attributes

- Object object
- void * scanner
- SdbMgr * sdbMgr
- FileReader * reader
- char * buffer
- int node_text_position
- GrammarContext * current
- List * contexts

3.8.1 Member Function Documentation

3.8.1.1 **Grammar2_copy()**

Copy an instance of the class Grammar2.

Returns

Copied instance.

3.8.1.2 Grammar2_new()

Create an instance of the class Grammar2.

Returns

New instance.

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.c

3.9 GrammarContext Struct Reference

Public Attributes

- · Object object
- · unsigned int lastNode
- · unsigned int includeNodeBranch

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.c

3.10 IncludeInfo Struct Reference

Public Attributes

- · Object object
- String * pattern
- List * dirs

The documentation for this struct was generated from the following file:

/home/thomas/Projects/SParse-master/SParse/src/ParseLib/FileReader/FileReader.c

3.11 List Class Reference

Public Member Functions

• PUBLIC List * List_new ()

Create a new instance of the class List.

PUBLIC void List_delete (List *this)

Delete an instance of the class List.

PUBLIC List * List_copy (List *this)

Copy an instance of the class List.

PUBLIC int List_compare (List *this, List *compared)

Compare 2 instances of the class List.

PUBLIC void List_print (List *this)

Print an instance of the class List.

• PUBLIC void List_insertHead (List *this, void *item)

Insert an item at the head of a list instance.

PUBLIC void List_insertTail (List *this, void *item)

Insert an item at the tail of a List instance.

• PUBLIC void List_merge (List *this, List *I1)

Merge a list into a List instance.

• PUBLIC void List_forEach (List *this, void(*method)(void *o))

Execute a given function for each item in an instance of List..

• PUBLIC unsigned int List_getSize (List *this)

Get the number of item in List instance.

PUBLIC void * List_removeHead (List *this)

Remove the head item in an instance of LIst

PUBLIC void * List_removeTail (List *this)

Remove the tail item in an instance of List

PUBLIC void * List_getHead (List *this)

Get the head item in an insatnce of LIst

Public Attributes

- Object object
- ListNode * head
- ListNode * tail
- ListNode * iterator
- unsigned int nbNodes

3.11.1 Member Function Documentation

3.11.1.1 List_compare()

Compare 2 instances of the class List.

Returns

0 if different, 1 if equal.

3.11.1.2 List_copy()

Copy an instance of the class List.

Returns

Copy of the given instance.

3.11.1.3 List_forEach()

```
PUBLIC void List_forEach (
            List * this,
            void(*)(void *o) method )
```

Execute a given function for each item in an instance of List..

3.11 List Class Reference

Parameters

```
in f Pointer to function.
```

3.11.1.4 List_getSize()

Get the number of item in List instance.

Returns

Number of items.

3.11.1.5 List_insertHead()

Insert an item at the head of a list instance.

Parameters

in <i>item</i>	Reference to item.
----------------	--------------------

3.11.1.6 List_insertTail()

Insert an item at the tail of a List instance.

Parameters

in	item	Reference to item.

3.11.1.7 List_merge()

```
PUBLIC void List_merge (
            List * this,
            List * 11 )
```

Merge a list into a List instance.

Parameters

in	11	Reference to list to merge.
----	----	-----------------------------

3.11.1.8 List_new()

```
PUBLIC List * List_new ( )
```

Create a new instance of the class List.

Returns

New instance.

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/List/List.c

3.12 Map Class Reference

Public Member Functions

```
• PUBLIC Map * Map_new ()
```

Create a new instance of the class Map.

PUBLIC void Map_delete (Map *this)

TBD.

PUBLIC Map * Map_copy (Map *this)

Copy an instance of the class Map.

PUBLIC unsigned int Map_insert (Map *this, String *s, void *p)

PUBLIC unsigned int Map_find (Map *this, String *s, void **p)

PUBLIC List * Map_getAll (Map *this)

Get all the entries in an instance of a Map.

Public Attributes

- Object object
- List * htable [HTABLE_SIZE]

3.12.1 Member Function Documentation

3.12.1.1 Map_copy()

Copy an instance of the class Map.

Returns

Copy of instance.

3.12.1.2 Map_getAll()

Get all the entries in an instance of a Map.

Returns

List of map

3.12.1.3 Map_insert()

```
PUBLIC unsigned int Map_insert (  \frac{\text{Map * this,}}{\text{String * s,}}   \text{void * p )}
```

TBD.

Returns

TBD

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/Map/Map.c

3.13 MapEntry Struct Reference

Public Attributes

- Object object
- String * s
- void * item

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/Map/MapEntry.c

3.14 Node Struct Reference

Public Attributes

- · unsigned short int nbKeyUsed
- · unsigned short int isLeaf
- unsigned int keys [ORDER *2 1]
- Object leaves [ORDER *2]
- Node * children [ORDER *2]

The documentation for this struct was generated from the following files:

- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/BTree/Node.h
- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/include/Node.h

3.15 Object Struct Reference

Public Member Functions

• PUBLIC Object * Object_new (unsigned int size, Class *class)

Create an instance of the class Object.

PUBLIC void Object_delete (Object *this)

Delete an instance of the class Object.

• PUBLIC Object * Object_copy (Object *this)

Copy an instance of the class Object.

• PUBLIC int Object_comp (Object *this, Object *compared)

Compare 2 instances of the class Object.

• PUBLIC char * Object_print (Object *this)

Print an instance of the class Object into a buffer of characters.

PUBLIC Object * Object_getRef (Object *this)

Get a reference to an instance of the class Object.

Public Attributes

- · unsigned int id
- Class * class
- void(* delete)(Object *this)
- Object *(* copy)(Object *this)
- unsigned int refCount
- · unsigned int size

3.15.1 Member Function Documentation

3.15.1.1 Object_comp()

```
PUBLIC int Object_comp (
                Object * this,
                Object * compared )
```

Compare 2 instances of the class Object.

Returns

1 if equal, 0 else.

3.15.1.2 Object_copy()

Copy an instance of the class Object.

Returns

New instance

3.15.1.3 Object_getRef()

Get a reference to an instance of the class Object.

Returns

Reference to instance

3.15.1.4 Object_new()

Create an instance of the class Object.

Parameters

in Class to instanciate

3.15.1.5 Object_print()

Print an instance of the class Object into a buffer of characters.

Returns

Buffer of characters

The documentation for this struct was generated from the following files:

- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/include/Object.h
- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/Object/Object.h
- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/Object/Object.c

3.16 ObjectInfo Struct Reference

Public Attributes

- Object * ptr
- unsigned int prevId
- · unsigned int nextld

The documentation for this struct was generated from the following file:

/home/thomas/Projects/SParse-master/SParse/src/CommonLib/ObjectMgr/ObjectMgr.c

3.17 ObjectMgr Class Reference

Public Member Functions

• PUBLIC void **ObjectMgr_delete** (ObjectMgr *this)

Delete an instance of the class ObjectMgr.

• PUBLIC ObjectMgr * ObjectMgr_copy (ObjectMgr *this)

Copy an instance of the class ObjectMgr.

PUBLIC ObjectMgr * ObjectMgr_getRef ()

Get a reference to the singleton instance of ObjectMgr.

PUBLIC void ObjectMgr_report (ObjectMgr *this)

Reports the usage statistics for an instance of ObjectMgr.

• PUBLIC Object * ObjectMgr_allocate (ObjectMgr *this, unsigned int size)

Allocate a new object memory footprint of a given size.

PUBLIC void ObjectMgr_deallocate (ObjectMgr *this, Object *object)

De Allocate a given object.

Public Attributes

- Object object
- · unsigned int maxNbObjectAllocated
- · unsigned int allocRequestId
- · unsigned int freeRequestId
- unsigned int nbAllocatedObjects
- ObjectInfo allocatedObjects [MAX_NB_OBJECTS]
- unsigned int freeSpace
- unsigned int usedSpace

3.17.1 Member Function Documentation

3.17.1.1 ObjectMgr_allocate()

Allocate a new object memory footprint of a given size.

Parameters

in	size	size in bytes of the memory footprint.]

Returns

Reference to a instance of Object.

3.17.1.2 ObjectMgr_copy()

Copy an instance of the class ObjectMgr.

Returns

New instance

3.17.1.3 ObjectMgr_deallocate()

De Allocate a given object.

Parameters

in	object	Reference to instance of Object.	1
----	--------	----------------------------------	---

3.17.1.4 ObjectMgr_getRef()

```
PUBLIC ObjectMgr * ObjectMgr_getRef ( )
```

Get a reference to the singleton instance of ObjectMgr.

Returns

Reference to the singleton.

3.17.2 Member Data Documentation

3.17.2.1 maxNbObjectAllocated

```
unsigned int ObjectMgr::maxNbObjectAllocated
```

This is member B

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ObjectMgr/ObjectMgr.c

3.18 OptionDefault Struct Reference

Public Attributes

- char * name
- · char * flag
- char * value

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/OptionMgr/OptionMgr.c

3.19 OptionMgr Class Reference

Public Member Functions

```
    PUBLIC void OptionMgr_delete (OptionMgr *this)
    TBD.
```

PUBLIC OptionMgr * OptionMgr_copy (OptionMgr *this)

• PUBLIC OptionMgr * OptionMgr_getRef ()

TRD

PUBLIC String * OptionMgr_getOption (OptionMgr *this, const char *name)

PUBLIC void OptionMgr_setOption (OptionMgr *this, const char *optionName, String *value)
 TBD.

PUBLIC unsigned int OptionMgr_readFromFile (OptionMgr *this)

PUBLIC unsigned int OptionMgr_readFromCmdLine (OptionMgr *this, const int argc, const char **argv)
 TBD.

Public Attributes

- Object object
- Map * options

3.19.1 Member Function Documentation

3.19.1.1 OptionMgr_getRef()

```
PUBLIC OptionMgr * OptionMgr_getRef ( )
TBD.
```

TBD

3.19.1.2 OptionMgr_readFromCmdLine()

TBD.

Parameters

in	argc	Number of commandline arguments.
in	argv	List os commandline arguments.

Returns

Status of operation.

The documentation for this class was generated from the following file:

/home/thomas/Projects/SParse-master/SParse/src/AppliLib/OptionMgr/OptionMgr.c

3.20 PoolCache Struct Reference

Public Attributes

- unsigned int idx
- · unsigned int isUsed
- void * cache

The documentation for this struct was generated from the following files:

- /home/thomas/Projects/SParse-master/SParse/src/CommonLib/include/Pool.h
- $\bullet \ \ / home/thomas/Projects/SParse-master/SParse/src/CommonLib/Pool/Pool.h$

3.21 SdbMgr Class Reference

Public Member Functions

• PUBLIC void **SdbMgr_delete** (SdbMgr *this)

Destroy an instance of the class SdbMgr.

PUBLIC SdbMgr * SdbMgr_copy (SdbMgr *this)

Create a copy of an SdbMgr object.

• PUBLIC SdbMgr * SdbMgr_getRef ()

Get a reference to an object.

• PUBLIC unsigned int SdbMgr_execute (SdbMgr *this, const char *statement, List *result)

Execute a Sdb request.

Public Attributes

- Object object
- sqlite3 * db
- String * name

3.21.1 Member Function Documentation

3.21.1.1 SdbMgr_copy()

Create a copy of an SdbMgr object.

Returns

A copy of the SdbMgr object.

3.21.1.2 SdbMgr_execute()

Execute a Sdb request.

Returns

status

3.21.1.3 SdbMgr_getRef()

```
PUBLIC SdbMgr * SdbMgr_getRef ( )
```

Get a reference to an object.

Returns

A reference to a SdbMgr object.

The documentation for this class was generated from the following file:

/home/thomas/Projects/SParse-master/SParse/src/AppliLib/SdbMgr/SdbMgr.c

3.22 SdbRequest Class Reference

Public Member Functions

PUBLIC SdbRequest * SdbRequest_new (const char *fmt)

Create a new SdbRequest instance

@parameter SQL statement template.

• PUBLIC void SdbRequest_delete (SdbRequest *this)

Create a new SdbRequest instance @parameter SQL statement template.

• PUBLIC void SdbRequest_execute (SdbRequest *this,...)

Execute a SdbRequest

@parameter Variable list of parameter to use with SQL template.

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Public Attributes

- Object object
- char * buffer
- · unsigned int size
- const char * fmt
- List * result
- unsigned int nbResults
- · unsigned int nbColumns

3.22.1 Member Function Documentation

3.22.1.1 SdbRequest_delete()

```
PUBLIC void SdbRequest_delete ( {\tt SdbRequest * this })
```

Create a new SdbRequest instance

@parameter SQL statement template.

Returns

Instance of an SdbRequest

3.22.1.2 SdbRequest_execute()

Execute a SdbRequest

@parameter Variable list of parameter to use with SQL template.

Returns

Instance of an SdbRequest

3.22.1.3 SdbRequest_new()

Create a new SdbRequest instance

@parameter SQL statement template.

Returns

Instance of an SdbRequest

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/SdbMgr/SdbRequest.c

3.23 SkipNode Struct Reference

Public Attributes

- Object * objectInfo
- · unsigned int key
- void * object
- · unsigned int level
- unsigned int forward [SKIPLIST_MAX_LEVEL]

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/SkipList/SkipList.c

3.24 SParse Class Reference

Public Member Functions

PUBLIC SParse * SParse_new (String *sdbName)

Create a new SParse object.

PUBLIC void SParse_delete (SParse *this)

Delete a SParse object.

• PUBLIC unsigned int SParse_parse (SParse *this, const char *extension)

Parse all files with a given extension.

Public Attributes

- Object object
- char * extension
- SdbMgr * sdbMgr

3.24.1 Member Function Documentation

3.24.1.1 SParse_delete()

Delete a SParse object.

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Parameters

```
Object to delete.
```

3.24.1.2 SParse_new()

Create a new SParse object.

Returns

New SParse object.

3.24.1.3 SParse_parse()

Parse all files with a given extension.

Parameters

in	extension	Extension of the files to parse.

Returns

Status of the operation.

The documentation for this class was generated from the following file:

 $\bullet \ \ / home/thomas/Projects/SParse-master/SParse/src/ParseLib/SParse/SParse.c$

3.25 String Struct Reference

Public Member Functions

- PUBLIC void String_delete (String *this)
 Delete an instance of class String.
- PUBLIC String * String_copy (String *this)

```
Copy an instance of class String.
```

PUBLIC String * String_getRef (String *this)

Copy an instance of class String.

• PUBLIC int String_compare (String *this, String *compared)

Compare this String with another String.

PUBLIC String * String_subString (String *this, unsigned int idx, unsigned int length)

PUBLIC int String_toInt (String *this)

TRD

• PUBLIC unsigned int String_getLength (String *this)

TRI

• PUBLIC char * String_getBuffer (String *this)

TRE

PUBLIC void String setBuffer (String *this, char *buffer)

TBD

PUBLIC unsigned int String_isContained (String *this, String *s2)

TBD

Public Attributes

- · Object object
- · int isOwned
- char * buffer
- · unsigned int length

3.25.1 Detailed Description

/file String2.c

/brief The String class provide a dynamic array of char terminated by 0.

The class String is a container for text data. /class String

3.25.2 Member Function Documentation

3.25.2.1 String_compare()

Compare this String with another String.

Parameters

in	compared	String to compare
----	----------	-------------------

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Returns

0 if S1=S2, negative if S1<S2, positive if S1>S2

3.25.2.2 String_copy()

Copy an instance of class String.

Returns

Copy of instance.

3.25.2.3 String_getRef()

Copy an instance of class String.

Returns

Copy of instance.

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/String/String2.c

3.26 TestFileMgr Struct Reference

Public Attributes

- Object object
- List * files
- List * directories
- char * separator
- String * rootLocation

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/FileMgr/tests/UT_FileMgr_01.c

3.27 TestItem Struct Reference

Public Attributes

- Object object
- int x
- int y

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/CommonLib/List/tests/UT_List.c

3.28 testOptionMgr Struct Reference

Public Attributes

- Object object
- Map * options

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/OptionMgr/tests/main.c

3.29 TestSdbMgr Struct Reference

Public Attributes

· Object object

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/SdbMgr/tests/main.c

3.30 TestTimeMgr Struct Reference

Public Attributes

- · Object object
- Map * timers

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/TimeMgr/tests/main.c

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3.31 TimeMgr Class Reference

Public Member Functions

```
    PUBLIC void TimeMgr_delete (TimeMgr *this)
        Delete a TimeMgr object.

    PUBLIC TimeMgr * TimeMgr_copy (TimeMgr *this)
    Copy an instance of the class TimeMgr.
```

• PUBLIC TimeMgr * TimeMgr_getRef ()

Get a reference to the singleton instance of TimeMgr.

PUBLIC void TimeMgr_latchTime (TimeMgr *this, String *s)

Latch the current time under the specified name.

Public Attributes

- Object object
- Map * timers

3.31.1 Member Function Documentation

3.31.1.1 TimeMgr_copy()

Copy an instance of the class TimeMgr.

Returns

New instance

3.31.1.2 TimeMgr_delete()

Delete a TimeMgr object.

Parameters

Object to delete.

3.32 Timer Class Reference 35

3.31.1.3 TimeMgr_getRef()

```
PUBLIC TimeMgr * TimeMgr_getRef ( )
```

Get a reference to the singleton instance of TimeMgr.

Returns

Reference to the singleton.

3.31.1.4 TimeMgr_latchTime()

Latch the current time under the specified name.

Parameters

```
name of the timer to create
```

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/TimeMgr/TimeMgr.c

3.32 Timer Class Reference

Public Member Functions

```
    PUBLIC Timer * Timer_new (String *name)
```

Create an instance of the class Timer.

PUBLIC void Timer_delete (Timer *this)

Delete an instance of the class Timer.

• PUBLIC Timer * Timer_copy (Timer *this)

Copy an instance of the class Timer.

PUBLIC unsigned int Timer_isEqual (Timer *this, Timer *compared)
 TBD.

• PUBLIC void **Timer_print** (Timer *this)

TBD

• PUBLIC void **Timer_latchTime** (Timer *this)

TBD.

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Public Attributes

- Object object
- String * name
- unsigned int state
- · unsigned int nbCalls
- long double cpuDurationS
- long double wallDurationS
- long double cpuLatchedTimeS
- long double wallLatchedTimeS

3.32.1 Member Function Documentation

3.32.1.1 Timer_copy()

Copy an instance of the class Timer.

Returns

Copied instance.

3.32.1.2 Timer_new()

Create an instance of the class Timer.

Returns

New instance.

The documentation for this class was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/AppliLib/TimeMgr/Timer.c

3.33 yy_buffer_state Struct Reference

Public Attributes

- FILE * yy_input_file
- char * yy_ch_buf
- char * yy_buf_pos
- int yy_buf_size
- int yy_n_chars
- int yy_is_our_buffer
- int yy_is_interactive
- int yy_at_bol
- int yy_bs_lineno
- int yy_bs_column
- int yy_fill_buffer
- int yy_buffer_status

3.33.1 Member Data Documentation

3.33.1.1 yy_bs_column

```
int yy_buffer_state::yy_bs_column
```

The column count.

3.33.1.2 yy_bs_lineno

```
int yy_buffer_state::yy_bs_lineno
```

The line count.

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.lex.c

3.34 yy_trans_info Struct Reference

Public Attributes

- flex_int16_t yy_verify
- flex_int16_t yy_nxt

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.lex.c

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3.35 yyalloc Union Reference

Public Attributes

- yy_state_t yyss_alloc
- YYSTYPE yyvs_alloc

The documentation for this union was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.parse.c

3.36 yyguts_t Struct Reference

Public Attributes

- YY_EXTRA_TYPE yyextra_r
- FILE * yyin_r
- FILE * yyout_r
- size_t yy_buffer_stack_top
- size_t yy_buffer_stack_max
- YY_BUFFER_STATE * yy_buffer_stack
- char yy_hold_char
- int yy_n_chars
- int yyleng_r
- char * yy_c_buf_p
- int yy_init
- int yy_start
- int yy_did_buffer_switch_on_eof
- int yy_start_stack_ptr
- int yy_start_stack_depth
- int * yy_start_stack
- yy_state_type yy_last_accepting_state
- char * yy_last_accepting_cpos
- · int yylineno_r
- int yy_flex_debug_r
- char * yytext_r
- int yy_more_flag
- int yy_more_len
- YYSTYPE * yylval_r

3.36.1 Member Data Documentation

3.36.1.1 yy_buffer_stack

YY_BUFFER_STATE* yyguts_t::yy_buffer_stack

Stack as an array.

3.36.1.2 yy_buffer_stack_max

```
\verb|size_t yyguts_t:: yy_buffer_stack_max| \\
```

capacity of stack.

3.36.1.3 yy_buffer_stack_top

```
size_t yyguts_t::yy_buffer_stack_top
```

index of top of stack.

The documentation for this struct was generated from the following file:

• /home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.lex.c

3.37 YYSTYPE Union Reference

Public Attributes

String * text

The documentation for this union was generated from the following file:

 $\bullet \ \ / home/thomas/Projects/SParse-master/SParse/src/ParseLib/Grammar2/Grammar2.parse.h$

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Chapter 4

File Documentation

4.1 /home/thomas/Projects/SParse-master/SParse/src/AppliLib/FileMgr/← FileDesc.c File Reference

The FileDesc class describe a File in the FlleMgr.

```
#include "FileDesc.h"
#include "String2.h"
#include "FileIo.h"
#include "Class.h"
#include "Object.h"
```

Classes

class FileDesc

Functions

• PRIVATE String * FileDesc_getBasename (FileDesc *this)

4.1.1 Detailed Description

The FileDesc class describe a File in the FlleMgr.

The class FileDesc is TBD

4.2 FileDesc.h

```
1 /* FileDesc.h */
2
3 #ifndef _FILEDESC_H_
4 #define _FILEDESC_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct FileDesc FileDesc;
10
11 PUBLIC FileDesc * FileDesc_new();
12 PUBLIC void FileDesc_delete(FileDesc * this);
13 PUBLIC FileDesc * FileDesc_copy(FileDesc * this);
14 PUBLIC void FileDesc_setFullName(FileDesc * this, String * fullName);
15 PUBLIC String * FileDesc_getFullName(FileDesc * this);
16 PUBLIC void FileDesc_setName(FileDesc * this, String * name);
17 PUBLIC String * FileDesc_getName(FileDesc * this);
18 PUBLIC String * FileDesc_load(FileDesc * this);
19
20 #endif /* _FILEDESC_H_ */
```

4.3 FileDesc.h

```
1 /* FileDesc.h */
2
3 #ifndef _FILEDESC_H_
4 #define _FILEDESC_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct FileDesc FileDesc;
10
11 PUBLIC FileDesc * FileDesc_new();
12 PUBLIC void FileDesc_delete(FileDesc * this);
13 PUBLIC FileDesc * FileDesc_copy(FileDesc * this);
14 PUBLIC void FileDesc_setFullName(FileDesc * this, String * fullName);
15 PUBLIC String * FileDesc_getFullName(FileDesc * this);
16 PUBLIC void FileDesc_setName(FileDesc * this, String * name);
17 PUBLIC String * FileDesc_getName(FileDesc * this);
18 PUBLIC String * FileDesc_load(FileDesc * this);
19
20 #endif /* _FILEDESC_H_ */
```

4.4 /home/thomas/Projects/SParse-master/SParse/src/AppliLib/FileMgr/ FileMgr.c File Reference

The FileMgr class manages a list of files contained in a group of locations.

```
#include "FileMgr.h"
#include "String2.h"
#include "Class.h"
#include "Object.h"
#include "List.h"
#include "FileDesc.h"
#include "Memory.h"
#include "Error.h"
#include "FileIo.h"
```

Classes

class FileMgr

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Macros

• #define FILEMGR MAX PATH (1024)

Functions

- PRIVATE void FileMgr_listFiles (FileMgr *this, String *directory)
- PRIVATE FileDesc * FileMgr_isManaged (FileMgr *this, String *fullName)
- PRIVATE unsigned int FileMgr_existFS (FileMgr *this, String *fullName)
- PUBLIC FileDesc * FileMgr searchFile (FileMgr *this, String *name, List *preferredDir)

4.4.1 Detailed Description

The FileMgr class manages a list of files contained in a group of locations.

The class FileMgr is TBD

4.5 FileMgr.h

```
1 /* FileMgr.h */
3 #ifndef _FILEMGR_H_
4 #define _FILEMGR_H_
6 #include "Types.h"
7 #include "List.h"
8 #include "String2.h"
9 #include "FileDesc.h"
11 typedef struct FileMgr FileMgr;
13 PUBLIC void FileMgr_delete(FileMgr * this);
14 PUBLIC FileMgr * FileMgr_copy(FileMgr * this);
15 PUBLIC String* FileMgr_load(FileMgr* this, const char * fileName);
16 PUBLIC void FileMgr_close(FileMgr* this, String* fileName);
17 PUBLIC unsigned int FileMgr_setRootLocation(FileMgr* this, const char * location);
18 PUBLIC char * FileMgr_getRootLocation(FileMgr* this);
19 PUBLIC FileMgr* FileMgr_getRef();
20 PUBLIC unsigned int FileMgr_addDirectory(FileMgr * this, const char * directoryName);
21 PUBLIC String * FileMgr_addFile(FileMgr * this, const char * fileName);
22 PUBLIC List * FileMgr_filterFiles(FileMgr * this, const char * pattern);
23 PUBLIC FileDesc * FileMgr_searchFile(FileMgr * this, String * name, List * preferredDir);
24 #endif /* _FILEMGR_H_ */
```

4.6 FileMgr.h

```
1 /* FileMgr.h */
3 #ifndef _FILEMGR_H_
4 #define _FILEMGR_H_
6 #include "Types.h"
7 #include "List.h"
8 #include "String2.h"
9 #include "FileDesc.h"
10
11 typedef struct FileMgr FileMgr;
13 PUBLIC void FileMgr_delete(FileMgr * this);
14 PUBLIC FileMgr * FileMgr_copy(FileMgr * this);
15 PUBLIC String* FileMgr_load(FileMgr* this, const char * fileName);
16 PUBLIC void FileMgr_close(FileMgr* this, String* fileName);
17 PUBLIC unsigned int FileMgr_setRootLocation(FileMgr* this, const char * location);
18 PUBLIC char * FileMgr_getRootLocation(FileMgr* this);
19 PUBLIC FileMgr* FileMgr_getRef();
20 PUBLIC unsigned int FileMgr_addDirectory(FileMgr * this, const char * directoryName);
21 PUBLIC String * FileMgr_addFile(FileMgr * this, const char * fileName);
22 PUBLIC List * FileMgr_filterFiles(FileMgr * this, const char * pattern);
23 PUBLIC FileDesc * FileMgr_searchFile(FileMgr * this, String * name, List * preferredDir);
24 #endif /* _FILEMGR_H_ */
```

4.7 /home/thomas/Projects/SParse-master/SParse/src/AppliLib/Option Mgr/OptionMgr.c File Reference

The OptionMgr class manages the application configuration.

```
#include "OptionMgr.h"
#include "Class.h"
#include "Object.h"
#include "String2.h"
#include "Map.h"
#include "FileMgr.h"
#include "Memory.h"
#include "Error.h"
```

Classes

- · class OptionMgr
- struct OptionDefault

Functions

PRIVATE unsigned int OptionMgr parseFile (OptionMgr *this, String *fileContent)

4.7.1 Detailed Description

The OptionMgr class manages the application configuration.

The class OptionMgr is TBD

4.8 OptionMgr.h

```
1 /* OptionMgr.h */
2
3 #ifndef _OPTIONMGR_H_
4 #define _OPTIONMGR_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct OptionMgr_OptionMgr;
10
11 PUBLIC void OptionMgr_delete(OptionMgr * this);
12 PUBLIC OptionMgr * OptionMgr_copy(OptionMgr * this);
13 PUBLIC PUBLIC OptionMgr * OptionMgr_getRef();
14 PUBLIC String * OptionMgr_getOption(OptionMgr * this, const char * name);
15 PUBLIC void OptionMgr_setOption(OptionMgr * this, const char * optionName, String * value);
16 PUBLIC unsigned int OptionMgr_readFromFile(OptionMgr * this);
17 PUBLIC unsigned int OptionMgr_readFromCmdLine(OptionMgr * this, const char * optionName);
18 PUBLIC unsigned int OptionMgr_readFromCmdLine(OptionMgr * this, const char * optionName);
19
20 #endif /* _OPTIONMGR_H_ */
```

4.9 OptionMgr.h

4.9 OptionMgr.h

```
1 /* OptionMgr.h */
2
3 #ifndef _OPTIONMGR_H_
4 #define _OPTIONMGR_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct OptionMgr_OptionMgr;
10
11 PUBLIC void OptionMgr_delete(OptionMgr * this);
12 PUBLIC OptionMgr * OptionMgr_copy(OptionMgr * this);
13 PUBLIC PUBLIC OptionMgr * OptionMgr_getRef();
14 PUBLIC String * OptionMgr_getOption(OptionMgr * this, const char * name);
15 PUBLIC void OptionMgr_setOption(OptionMgr * this, const char * optionName, String * value);
16 PUBLIC unsigned int OptionMgr_readFromFile(OptionMgr * this);
17 PUBLIC unsigned int OptionMgr_readFromCmdLine(OptionMgr * this, const char * optionName);
18 PUBLIC unsigned int OptionMgr_isOptionEnabled(OptionMgr* this, const char * optionName);
19
20 #endif /* _OPTIONMGR_H_ */
```

4.10 /home/thomas/Projects/SParse-master/SParse/src/main.c File Reference

Contains the main() function.

```
#include "OptionMgr.h"
#include "FileMgr.h"
#include "TimeMgr.h"
#include "Error.h"
#include "Debug.h"
#include "SParse.h"
#include "Memory.h"
#include "ObjectMgr.h"
#include <signal.h>
```

Functions

PRIVATE void sighandler (int signum, siginfo_t *info, void *ptr)

Display and exit when signal is received.

PRIVATE void start_application (String *inputDir, String *dbName)

Starts the application.

PRIVATE void print_usage ()

Prints the application help.

PUBLIC int main (const int argc, const char **argv)

Inital entry point for the application.

4.10.1 Detailed Description

Contains the main() function.

This file contains only one function main() which initialises the OptionMgr and FileMgr objects. The function also processes each source file in turn.

4.10.2 Function Documentation

4.10.2.1 main()

```
PUBLIC int main (

const int argc,

const char ** argv )
```

Inital entry point for the application.

Parameters

argc	Number of arguments
argv	Array of arguments

The main function: 1) Reads the options from command line or file 2) Starts the application for a DB name and an input file directory.

4.10.2.2 print_usage()

```
PRIVATE void print_usage ( )
```

Prints the application help.

Prints the usage information for the aplication.

4.10.2.3 sighandler()

Display and exit when signal is received.

Parameters

signum	TBC	
info	TBC	
ptr	TBC	

This function displays a signal and exit the application.

4.10.2.4 start_application()

```
PRIVATE void start_application (
```

```
String * inputDir,
String * dbName )
```

Starts the application.

Parameters

inputDir	directory containing the files to parse
dbName	DB file to output

Returns

This functions starts the main application.

- 1) Creates a FileMgr object for input directory
- 2) Creates a SParse object
- 3) Measure the execution time

4.11 /home/thomas/Projects/SParse-master/SParse/src/AppliLib/Sdb Mgr/SdbMgr.c File Reference

TBD.

```
#include "SdbMgr.h"
#include "Class.h"
#include "Object.h"
#include "String2.h"
#include "Memory.h"
#include "Error.h"
#include "List.h"
#include <sqlite3.h>
```

Classes

• class SdbMgr

Functions

- PRIVATE unsigned int **SdbMgr_open** (SdbMgr *this, String *sdbName)
- PRIVATE void **SdbMgr_close** (SdbMgr *this)

Variables

• PRIVATE SdbMgr * sdbMgr = 0

4.11.1 Detailed Description

TBD.

TBD

4.12 SdbMgr.h

```
1 /* SdbMgr.h */
2
3 #ifndef _SDBMGR_H_
4 #define _SDBMGR_H_
5
6 #include "Types.h"
7 #include "String2.h"
8 #include "List.h"
9
10 typedef struct SdbMgr SdbMgr;
11
12 PUBLIC SdbMgr * SdbMgr_new(String * name);
13 PUBLIC void SdbMgr delete(SdbMgr* this);
14 PUBLIC SdbMgr * SdbMgr_copy(SdbMgr* this);
15 PUBLIC SdbMgr * SdbMgr_getRef();
16 PUBLIC unsigned int SdbMgr_execute(SdbMgr* this, const char* statement, List * result);
17
18 #endif /* _SDBMGR_H_ */
```

4.13 SdbMgr.h

```
1 /* SdbMgr.h */
2
3 #ifndef _SDBMGR_H_
4 #define _SDBMGR_H_
5
6 #include "Types.h"
7 #include "String2.h"
8 #include "List.h"
9
10 typedef struct SdbMgr SdbMgr;
11
12 PUBLIC SdbMgr * SdbMgr_new(String * name);
13 PUBLIC void SdbMgr_delete(SdbMgr* this);
14 PUBLIC SdbMgr * SdbMgr_copy(SdbMgr* this);
15 PUBLIC SdbMgr * SdbMgr_getRef();
16 PUBLIC unsigned int SdbMgr_execute(SdbMgr* this, const char* statement, List * result);
17
18 #endif /* _SDBMGR_H_ */
```

4.14 SdbRequest.h

```
1 /* SdbRequest.h */
2 #ifndef _SDBREQUEST_H_
3 #define _SDBREQUEST_H_
4
5 #include "Types.h"
6 #include "List.h"
7
8 typedef struct SdbRequest SdbRequest;
9
10 PUBLIC SdbRequest * SdbRequest_new(const char * fmt);
11 PUBLIC void SdbRequest_delete(SdbRequest * this);
12 PUBLIC SdbRequest * SdbRequest_copy(SdbRequest * this);
13 PUBLIC void SdbRequest_execute(SdbRequest * this);
14 PUBLIC unsigned int SdbRequest_getNbResult(SdbRequest * this);
15 PUBLIC List * SdbRequest_getResults(SdbRequest * this);
16
17 #endif /* _SDBREQUEST_H_ */
```

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4.15 SdbRequest.h

```
1 /* SdbRequest.h */
2 #ifindef _SDBREQUEST_H_
3 #define _SDBREQUEST_H_
4
5 #include "Types.h"
6 #include "List.h"
7
8 typedef struct SdbRequest SdbRequest;
9
10 PUBLIC SdbRequest * SdbRequest_new(const char * fmt);
11 PUBLIC void SdbRequest_delete(SdbRequest * this);
12 PUBLIC SdbRequest * SdbRequest_copy(SdbRequest * this);
13 PUBLIC void SdbRequest_execute(SdbRequest * this);
14 PUBLIC unsigned int SdbRequest_getNbResult(SdbRequest * this);
15 PUBLIC List * SdbRequest_getResults(SdbRequest * this);
16
17 #endif /* _SDBREQUEST_H_ */
```

4.16 /home/thomas/Projects/SParse-master/SParse/src/AppliLib/Time Mgr/TimeMgr.c File Reference

This file contains the implementation for the class TimeMgr.

```
#include "TimeMgr.h"
#include "Timer.h"
#include "Class.h"
#include "Object.h"
#include "Map.h"
```

Classes

· class TimeMgr

Functions

• PUBLIC void TimeMgr_report (TimeMgr *this)

Variables

• PRIVATE TimeMgr * timeMgr = 0

4.16.1 Detailed Description

This file contains the implementation for the class TimeMgr.

The class TimeMgr provides an interface to the creation of timers.

4.17 TimeMgr.h

```
1 /* TimeMgr.h */
2
3 #ifndef _TIMEMGR_H_
4 #define _TIMEMGR_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct TimeMgr TimeMgr;
10
11 PUBLIC void TimeMgr_delete(TimeMgr * this);
12 PUBLIC TimeMgr * TimeMgr_copy(TimeMgr * this);
13 PUBLIC TimeMgr * TimeMgr_getRef();
14 PUBLIC void TimeMgr_latchTime(TimeMgr * this, String * s);
15 PUBLIC void TimeMgr_report(TimeMgr * this);
16
17 #endif /* _TIMEMGR_H_ */
```

4.18 TimeMgr.h

```
1 /* TimeMgr.h */
2
3 #ifndef _TIMEMGR_H_
4 #define _TIMEMGR_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct TimeMgr TimeMgr;
10
11 PUBLIC void TimeMgr_delete(TimeMgr * this);
12 PUBLIC TimeMgr * TimeMgr_copy(TimeMgr * this);
13 PUBLIC TimeMgr * TimeMgr_getRef();
14 PUBLIC void TimeMgr_latchTime(TimeMgr * this, String * s);
15 PUBLIC void TimeMgr_report(TimeMgr * this);
16
17 #endif /* _TIMEMGR_H_ */
```

4.19 Timer.h

```
1 /* Timer.h */
2
3 #include "Types.h"
4
5 typedef struct Timer Timer;
6
7 PUBLIC Timer * Timer_new();
8 PUBLIC void Timer_delete(Timer * this);
9 PUBLIC Timer * Timer_copy(Timer * this);
10 PUBLIC unsigned int Timer_isEqual(Timer * this, Timer * compared);
11 PUBLIC void Timer_print(Timer * this);
12 PUBLIC void Timer_latchTime(Timer * this);
```

4.20 Timer.h

```
1 /* Timer.h */
2
3 #include "Types.h"
4
5 typedef struct Timer Timer;
6
7 PUBLIC Timer * Timer_new();
8 PUBLIC void Timer_delete(Timer * this);
9 PUBLIC Timer * Timer_copy(Timer * this);
10 PUBLIC unsigned int Timer_isEqual(Timer * this, Timer * compared);
11 PUBLIC void Timer_print(Timer * this);
12 PUBLIC void Timer_latchTime(Timer * this);
```

4.21 Array.h 51

4.21 Array.h

```
1 #ifndef _ARRAY_H_
2 #define _ARRAY_H_
3
4 #endif /* _ARRAY_H_ */
```

4.22 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/→ BTree/BTree.c File Reference

This file contains the implementation of the class BTree.

```
#include "BTree.h"
#include "Node.h"
```

Functions

- BTree * BTree_new (unsigned int order)
- void BTree_add (BTree *tree, Key key, Object object)
- Object BTree_get (BTree *tree, Key key)
- Object BTree_remove (BTree *tree, Key key)
- void BTree_print (BTree *tree)
- PUBLIC BTree * BTree_newFromFile (char *fileName)
- PUBLIC void BTree_free (BTree *tree)

4.22.1 Detailed Description

This file contains the implementation of the class BTree.

The class BTree implements the BTree operations:

- init
- · add
- remove

4.23 BTree.h

```
18    unsigned short int nbObjects;
19    unsigned short int nbNodes;
20    unsigned int order;
21    unsigned int nodeSize;
22 } BTree;
23
24 PUBLIC BTree * BTree_new();
25 PUBLIC BTree * BTree_newFromFile(char* fileName);
26 PUBLIC void BTree_free(BTree * tree);
27 PUBLIC void BTree_add(BTree * tree, Key key, Object object);
28 PUBLIC Object BTree_get(BTree * tree, Key key);
29 PUBLIC Object BTree_remove(BTree * tree, Key key);
30 PUBLIC void BTree_print(BTree * tree);
31 PUBLIC unsigned int BTree_sizeof(BTree* tree);
32 PUBLIC unsigned int BTree_reportSizeInBytes(BTree * tree);
33
34
35 #endif /* _BTREE_ */
36
```

4.24 BTree.h

```
1 #ifndef _BTREE_
2 #define _BTREE_
4 * BTree.h
7 #include "Types.h"
8 #include "Node.h"
10 #define TRUE (1)
11 #define FALSE (0)
13 typedef struct BTree
14 {
         void* pool;
Node* root;
15
16
         unsigned int depth;
         unsigned short int nbObjects;
19
         unsigned short int nbNodes;
20
         unsigned int order;
21
         unsigned int nodeSize;
22 } BTree;
24 PUBLIC BTree * BTree_new();
25 PUBLIC BTree * BTree_newFromFile(char* fileName);
26 PUBLIC void BTree_free(BTree * tree);
27 PUBLIC void BTree_add(BTree * tree, Key key, Object object);
28 PUBLIC Object BTree_get(BTree * tree, Key key);
29 PUBLIC Object BTree_remove(BTree * tree, Key key);
30 PUBLIC void BTree_print(BTree * tree);
31 PUBLIC unsigned int BTree_sizeof(BTree* tree);
32 PUBLIC unsigned int BTree_reportSizeInBytes(BTree * tree);
33
34
35 #endif /* _BTREE_ */
```

4.25 CommonTypes.h

```
1 #ifndef _COMMONTYPES_
2 #define _COMMONTYPES_
3
4 #include <stdio.h>
5 #include <malloc.h>
6
7 #define TRUE (1)
8 #define FALSE (0)
9
10 typedef void * Object;
11 typedef void * Key;
12
13 #endif /* _COMMONTYPES_ */
```

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4.26 Node.h

```
2 * Node.h
4 #ifndef _NODE_
5 #define _NODE_
7 #include "Types.h"
8 #include "CommonTypes.h"
10 #define ORDER (3)
12 typedef struct Node Node;
14 typedef struct Node
15 {
       unsigned short int nbKeyUsed;
unsigned short int isLeaf;
16
       unsigned int keys[ORDER * 2 - 1];
19
       Object leaves[ORDER * 2];
20
      Node* children[ORDER * 2];
21 } Node;
23 PUBLIC Node * Node_new(unsigned short int isLeaf);
24 PUBLIC Node* Node_splitNode(Node* node, Node* nodeToSplit, Key key);
25 PUBLIC void Node_insert(Node* node, Key key, Object object);
26 PUBLIC Object Node_remove(Node* node, Key key, unsigned int* keyToUpdate);
27 PUBLIC Object Node_search(Node* node, Key key, unsigned int isFoundAlready);
28 PUBLIC void Node_free(Node* node);
29 PUBLIC void Node_print(Node* node, unsigned int depth);
31 #endif /* _NODE_ */
```

4.27 Node.h

```
2 * Node.h
4 #ifndef _NODE_
5 #define _NODE_
7 #include "Types.h"
8 #include "CommonTypes.h"
10 #define ORDER (3)
11
12 typedef struct Node Node;
13
14 typedef struct Node
        unsigned short int nbKeyUsed;
       unsigned short int isLeaf;
       unsigned int keys[ORDER * 2 - 1];
18
19
       Object leaves[ORDER * 2];
       Node* children[ORDER * 2];
20
21 } Node;
23 PUBLIC Node * Node_new(unsigned short int isLeaf);
24 PUBLIC Node* Node_splitNode(Node* node, Node* nodeToSplit, Key key);
25 PUBLIC void Node_insert(Node* node, Key key, Object object);
26 PUBLIC Object Node_remove(Node* node, Key key, unsigned int* keyToUpdate);
27 PUBLIC Object Node_search(Node* node, Key key, unsigned int isFoundAlready);
28 PUBLIC void Node_free(Node* node);
29 PUBLIC void Node_print(Node* node, unsigned int depth);
30
31 #endif /* _NODE_ */
```

4.28 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ Debug/Debug.c File Reference

This file contains debugging functions.

```
#include "Debug.h"
#include <stdio.h>
```

Functions

• void **dbg_printf** (const char *fmt,...)

4.28.1 Detailed Description

This file contains debugging functions.

The debugging function are TBD

4.29 Debug.h

```
1 /* Debug.h */
2
3 #include <stdarg.h>
4
5 #define TRACE(x) do { if (DEBUG) dbg_printf x; } while (0)
6
7 #define PRINT(x) do { dbg_printf x; } while (0)
8
9 void dbg_printf(const char *fmt, ...);
```

4.30 Debug.h

```
1 /* Debug.h */
2
3 #include <stdarg.h>
4
5 #define TRACE(x) do { if (DEBUG) dbg_printf x; } while (0)
6
7 #define PRINT(x) do { dbg_printf x; } while (0)
8
9 void dbg_printf(const char *fmt, ...);
```

4.31 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ Error/Error.c File Reference

Reports errors.

```
#include "Error.h"
#include "Debug.h"
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
```

Macros

• #define **DEBUG** (1)

4.32 Error.h 55

Functions

PUBLIC void Error_new (ErrorSeverity severity, char *msg,...)
 Reports errors.

4.31.1 Detailed Description

Reports errors.

This file contains error reporting functions.

4.31.2 Function Documentation

4.31.2.1 Error_new()

Reports errors.

Parameters

severity	Enum
msg	Variable list of parameters

This function reports errors using different formatting according to severity.

4.32 Error.h

```
1 /* Error.h */
2
3 #include "Types.h"
4
5 typedef enum
6 {
7    ERROR_DBG,
8    ERROR_INFO,
9    ERROR_FATAL
10    ERROR_FATAL
11 } ErrorSeverity;
12
13 PUBLIC void Error_new(ErrorSeverity severity, char * msg, ...);
```

4.33 Error.h

```
1 /* Error.h */
2
3 #include "Types.h"
```

```
4
5 typedef enum
6 {
7    ERROR_DBG,
8    ERROR_INFO,
9    ERROR_FATAL
11 } ErrorSeverity;
12
13 PUBLIC void Error_new(ErrorSeverity severity, char * msg, ...);
```

4.34 Filelo.h

```
1 #ifndef _FILEIO_H_
2 #define _FILEIO_H_
3 #include "String2.h"
4 #include "Types.h"
6 typedef enum FileIoStatus
      UNKNOWN=0,
9
      FILE_OPEN,
1.0
       DIR OPEN
11 } FileIoStatus:
12
13 typedef struct FileIo FileIo;
15 PUBLIC FileIo * FileIo_new();
16 PUBLIC void FileIo_delete();
17 PUBLIC void FileIo_openFile(FileIo* this, String* fullFileName);
18 PUBLIC void FileIo_createFile(FileIo* this, String* fullFileName);
19 PUBLIC void FileIo_openDir(FileIo* this, String* fullFileName);
20 PUBLIC void FileIo_createDir(FileIo* this, String* fullDirName);
21 PUBLIC void FileIo_write(FileIo* this, char* buffer, int length);
22 PUBLIC void FileIo_read(FileIo* this, char* buffer, int length);
23 PUBLIC void FileIo_remove(FileIo* this, String* fullFileName);
24 PUBLIC String * FileIo_getCwd(FileIo* this);
25 PUBLIC List * FileIo_listDirs(FileIo * this, String * directory);
26 PUBLIC List* FileIo_listFiles(FileIo* this, String * directory);
27 PUBLIC int FileIo_fSeekEnd(FileIo * this, int pos);
28 PUBLIC int FileIo_fSeekSet(FileIo * this, int pos);
29 PUBLIC int FileIo_ftell(FileIo* this);
30 //Opendir
31 //Readdir
33 #endif /* _FILEIO_H_ */
```

4.35 Filelo.h

```
1 #ifndef _FILEIO_H_
2 #define _FILEIO_H_
3 #include "String2.h"
4 #include "Types.h"
6 typedef enum FileIoStatus
        UNKNOWN=0.
8
        FILE_OPEN,
10
          DIR_OPEN
11 } FileIoStatus;
12
13 typedef struct FileIo FileIo;
14
15 PUBLIC FileIo * FileIo_new();
16 PUBLIC void FileIo_delete();
17 PUBLIC void FileIo_openFile(FileIo* this, String* fullFileName);
18 PUBLIC void FileIo_createFile(FileIo* this, String* fullFileName);
19 PUBLIC void FileIo_openDir(FileIo* this, String* fullFileName);
20 PUBLIC void FileIo_createDir(FileIo* this, String* fullDirName);
21 PUBLIC void FileIo_write(FileIo* this, char* buffer, int length);
22 PUBLIC void FileIo_read(FileIo* this, char* buffer, int length);
23 PUBLIC void FileIo_remove(FileIo* this, String* fullFileName);
24 PUBLIC String * FileIo_getCwd(FileIo* this);
25 PUBLIC List * FileIo_listDirs(FileIo * this, String * directory);
26 PUBLIC List * FileIo_listFiles(FileIo * this, String * directory);
27 PUBLIC int FileIo_fSeekEnd(FileIo * this, int pos);
28 PUBLIC int FileIo_fSeekSet(FileIo * this, int pos);
29 PUBLIC int FileIo_ftell(FileIo* this);
30 //Opendir
```

```
31 //Readdir
32
33 #endif /* _FILEIO_H_ */
```

4.36 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ List/List.c File Reference

This file contains the implementation of the class List.

```
#include "List.h"
#include "Class.h"
#include "Object.h"
#include "Memory.h"
```

Classes

class List

Functions

- PUBLIC void * List_getNext (List *this)
- PUBLIC void List_resetIterator (List *this)

4.36.1 Detailed Description

This file contains the implementation of the class List.

The class List implement the List operations:

- init
- add

4.37 List.h

```
1 /* List.h */
2
3 #ifndef _LIST_H_
4 #define _LIST_H_
5
6 #include "Types.h"
7
8 typedef struct List List;
9
10 PUBLIC List * List_new();
11 PUBLIC void List_delete(List* this);
12 PUBLIC List * List_copy(List* this);
13 PUBLIC int List_compare(List * this, List * compared);
14 PUBLIC void List_insertHead(List* this, void* item);
15 PUBLIC void List_insertHead(List* this, void* item);
16 PUBLIC void List_insertTail(List* this, void* item);
17 PUBLIC void List_merge(List* this, List* 11);
18 PUBLIC void List_forEach(List* this, void (*method)(void* o));
19 PUBLIC void * List_getNext(List* this);
20 PUBLIC void * List_removeHead(List* this);
21 PUBLIC void * List_removeHead(List* this);
22 PUBLIC void * List_getHead(List* this);
23 PUBLIC unsigned int List_getSize(List* this);
24 PUBLIC void List_resetIterator(List* this);
25
26 #endif /* _LIST_H_ */
```

4.38 List.h

```
1 /* List.h */
2
3 #ifndef _LIST_H_
4 #define _LIST_H_
5
6 #include "Types.h"
7
8 typedef struct List List;
9
10 PUBLIC List * List_new();
11 PUBLIC void List_delete(List* this);
12 PUBLIC List * List_copy(List* this);
13 PUBLIC int List_compare(List * this, List * compared);
14 PUBLIC void List_print(List * this);
15 PUBLIC void List_insertHead(List* this, void* item);
16 PUBLIC void List_insertTail(List* this, void* item);
17 PUBLIC void List_merge(List* this, List* 11);
18 PUBLIC void List_merge(List* this, void (*method) (void* o));
19 PUBLIC void * List_getNext(List* this);
20 PUBLIC void * List_removeHead(List* this);
21 PUBLIC void * List_removeHead(List* this);
22 PUBLIC void * List_getHead(List* this);
23 PUBLIC void * List_getHead(List * this);
24 PUBLIC void List_resetIterator(List * this);
25 #endif /* _LIST_H_ */
```

4.39 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ Map/Map.c File Reference

A Map class. This class provides a container indexed by a string.

```
#include "Map.h"
#include "MapEntry.h"
#include "List.h"
#include "Class.h"
#include "Object.h"
#include "String2.h"
#include "Memory.h"
#include "Error.h"
```

Classes

class Map

Macros

• #define HTABLE_SIZE (50)

Functions

- PRIVATE MapEntry * Map_findEntry (Map *this, String *s)
- PUBLIC void Map_print (Map *this)

4.40 Map.h 59

4.39.1 Detailed Description

A Map class. This class provides a container indexed by a string.

A support class for the Map class.

4.40 Map.h

```
1 /* Map.h */
2
3 #ifndef _MAP_H_
4 #define _MAP_H_
5
6 #include "Types.h"
7 #include "String2.h"
8 #include "List.h"
9
10 typedef struct Map Map;
11
12 PUBLIC Map * Map_new();
13 PUBLIC void Map_delete(Map * this);
14 PUBLIC Map * Map_copy(Map * this);
15 PUBLIC unsigned int Map_insert(Map * this, String* s, void * p);
16 PUBLIC unsigned int Map_find(Map * this, String* s, void ** p);
17 PUBLIC void Map_print(Map * this);
18 PUBLIC List * Map_getAll(Map * this);
19
20 #endif /* _MAP_H_ */
```

4.41 Map.h

```
1 /* Map.h */
2
3 #ifndef _MAP_H_
4 #define _MAP_H_
5
6 #include "Types.h"
7 #include "String2.h"
8 #include "List.h"
9
10 typedef struct Map Map;
11
12 PUBLIC Map * Map_new();
13 PUBLIC void Map_delete(Map * this);
14 PUBLIC Map * Map_copy(Map * this);
15 PUBLIC unsigned int Map_insert(Map * this, String* s, void * p);
16 PUBLIC void Map_print(Map * this);
17 PUBLIC void Map_print(Map * this);
18 PUBLIC List * Map_getAll(Map * this);
19
20 #endif /* _MAP_H_ */
```

4.42 MapEntry.h

```
1 /* MapEntry.h */
2
3 #ifndef _MAPENTRY_H_
4 #define _MAPENTRY_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct MapEntry MapEntry;
10
11 PUBLIC MapEntry * MapEntry_new();
12 PUBLIC void MapEntry * MapEntry_copy(MapEntry * this);
13 PUBLIC MapEntry * MapEntry_copy(MapEntry * this);
14 PUBLIC String * MapEntry_getString(MapEntry * this);
15 PUBLIC void * MapEntry_getItem(MapEntry * this);
16 PUBLIC void MapEntry_setString(MapEntry * this);
17 PUBLIC void MapEntry_setString(MapEntry * this, String * s);
18
19 #endif /* _MAPENTRY_H_ */
```

4.43 MapEntry.h

```
1 /* MapEntry.h */
2
3 #ifndef _MAPENTRY_H_
4 #define _MAPENTRY_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct MapEntry MapEntry;
10
11 PUBLIC MapEntry * MapEntry_new();
12 PUBLIC void MapEntry_delete(MapEntry * this);
13 PUBLIC MapEntry * MapEntry_copy(MapEntry * this);
14 PUBLIC String * MapEntry_getString(MapEntry * this);
15 PUBLIC void * MapEntry_getItem(MapEntry * this);
16 PUBLIC void MapEntry_setString(MapEntry * this, String * s);
17 PUBLIC void MapEntry_setItem(MapEntry * this, void * item);
18
19 #endif /* _MAPENTRY_H_ */
```

4.44 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ Memory/Memory.c File Reference

This file provides the implementation of the memory functions.

```
#include "Memory.h"
#include "Debug.h"
#include "Error.h"
#include <stdlib.h>
#include <string.h>
```

Macros

• #define **DEBUG** (0)

Variables

- PRIVATE unsigned int Memory_allocRequestId = 0
- PRIVATE unsigned int Memory_freeRequestId = 0
- PRIVATE unsigned int Memory_nbBytesAllocated = 0

4.44.1 Detailed Description

This file provides the implementation of the memory functions.

TBD

4.45 Memory.h 61

4.45 Memory.h

```
1 /* Memory.h */
2
3 #ifndef _MEMORY_H_
4 #define _MEMORY_H_
5
6 #include "Types.h"
7
8 PUBLIC void* Memory_alloc(unsigned int nbBytes);
9 PUBLIC void * Memory_realloc(void * pointer, unsigned int prevSizeBytes, unsigned int newSizeBytes);
10 PUBLIC void Memory_free(void* pointer, unsigned int nbBytes);
11 PUBLIC void Memory_set(void * pointer, unsigned char val, unsigned int nbBytes);
12 PUBLIC void Memory_copy(void * pointer, void * src, unsigned int nbBytes);
13 PUBLIC int Memory_copy(void * pointer, void * compared, unsigned int nbBytes);
14 PUBLIC int Memory_momp(void * pointer, void * compared);
15 PUBLIC unsigned int Memory_len(const void * pointer);
16 PUBLIC void Memory_report();
17 PUBLIC int Memory_getAllocRequestNb();
18 PUBLIC int Memory_getFreeRequestNb();
19
20 #endif /* _MEMORY_H_ */
```

4.46 Memory.h

```
1 /* Memory.h */
2
3 #ifndef _MEMORY_H_
4 #define _MEMORY_H_
5
6 #include "Types.h"
7
8 PUBLIC void* Memory_alloc(unsigned int nbBytes);
9 PUBLIC void * Memory_realloc(void * pointer, unsigned int prevSizeBytes, unsigned int newSizeBytes);
10 PUBLIC void Memory_free(void* pointer, unsigned int nbBytes);
11 PUBLIC void Memory_set(void * pointer, unsigned char val, unsigned int nbBytes);
12 PUBLIC void Memory_copy(void * pointer, void * src, unsigned int nbBytes);
13 PUBLIC int Memory_ncmp(void * pointer, void * compared, unsigned int nbBytes);
14 PUBLIC int Memory_cmp(void * pointer, void * compared, unsigned int nbBytes);
15 PUBLIC unsigned int Memory_len(const void * compared);
16 PUBLIC void Memory_report();
17 PUBLIC int Memory_getAllocRequestNb();
18 PUBLIC int Memory_getFreeRequestNb();
19
20 #endif /* _MEMORY_H_ */
```

4.47 Class.h

```
1 /* Class. h */
2
3 #ifndef _CLASS_H_
4 #define _CLASS_H_
5
6 #include "Object.h"
7
8 struct Class
9 {
10    Constructor f_new;
11    Destructor f_delete;
12    Copy_Operator f_copy;
13    Comp_Operator f_comp;
14    Printer f_print;
15 };
16
17 #endif /* _CLASS_H_ */
```

4.48 Class.h

```
1 /* Class. h */
2
3 #ifndef _CLASS_H_
4 #define _CLASS_H_
5
6 #include "Object.h"
```

```
8 struct Class
9 {
10    Constructor f_new;
11    Destructor f_delete;
12    Copy_Operator f_copy;
13    Comp_Operator f_comp;
14    Printer f_print;
15 };
16
17 #endif /* _CLASS_H_ */
```

4.49 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ Object/Object.c File Reference

This file contains the implementation for the class Object.

```
#include "Class.h"
#include "Object.h"
#include "ObjectMgr.h"
```

4.49.1 Detailed Description

This file contains the implementation for the class Object.

The class Object is TBD

4.50 Object.h

```
1 /* Object.h */
3 #ifndef _OBJECT_H_
4 #define _OBJECT_H_
6 #include "Types.h"
8 typedef struct Class Class;
9 typedef struct Object Object;
10
11 struct Object
12 {
     unsigned int id;
    Class * class;
1.5
     void (*delete) (Object * this);
    Object * (*copy) (Object * this);
unsigned int refCount;
16
17
     unsigned int size;
18
19 };
20
21 typedef struct Object * (*Constructor)();
22 typedef void (*Destructor)(struct Object *);
23 typedef struct Object * (*Copy_Operator)(struct Object *);
24 typedef int (*Comp_Operator)(struct Object *, struct Object *);
25 typedef char * (*Printer)(struct Object *);
29 PUBLIC Object * Object_new(unsigned int size, Class * class);
30 PUBLIC void Object_delete(Object * this);
31 PUBLIC Object * Object_copy(Object * this);
32 PUBLIC unsigned int Object_isEqual(Object * this, Object * compared);
33 PUBLIC char * Object_print(Object * this);
34 PUBLIC Object* Object_getRef(Object* this);
36 #endif /* _{OBJECT\_H\_} */
```

4.51 Object.h 63

4.51 Object.h

```
1 /* Object.h */
3 #ifndef _OBJECT_H_
4 #define _OBJECT_H_
6 #include "Types.h"
8 typedef struct Class Class;
9 typedef struct Object;
10
11 struct Object
     unsigned int id;
     Class * class;
   void (*delete) (Object * this);
Object * (*copy) (Object * this);
unsigned int refCount;
unsigned int size;
1.5
16
19 };
20
21 typedef struct Object * (*Constructor)();
22 typedef void (*Destructor)(struct Object *);
23 typedef struct Object * (*Copy_Operator)(struct Object *);
24 typedef int (*Comp_Operator)(struct Object *, struct Object *);
25 typedef char * (*Printer)(struct Object *);
28
29 PUBLIC Object * Object_new(unsigned int size, Class * class);
30 PUBLIC void Object_delete(Object * this);
31 PUBLIC Object * Object_copy(Object * this);
32 PUBLIC unsigned int Object_isEqual(Object * this, Object * compared);
33 PUBLIC char * Object_print(Object * this);
34 PUBLIC Object* Object_getRef(Object* this);
36 #endif /* _OBJECT_H_ */
```

4.52 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/← ObjectMgr/ObjectMgr.c File Reference

An object management class.

```
#include "ObjectMgr.h"
#include "Object.h"
#include "Memory.h"
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
```

Classes

- struct ObjectInfo
- class ObjectMgr

Macros

- #define MAX NB OBJECTS (40000)
- #define **END_OF_QUEUE** (0xFFFFFFF)

Typedefs

typedef struct ObjectInfo ObjectInfo

Functions

PUBLIC void ObjectMgr_reportUnallocated (ObjectMgr *this)

Variables

• PRIVATE ObjectMgr * objectMgr = 0

4.52.1 Detailed Description

An object management class.

This class provides an object allocation and de-allocation service. Only one instance of this class can be created.

4.53 ObjectMgr.h

```
1 /* ObjectMgr.h */
2
3 #ifndef _OBJECTMGR_H_
4 #define _OBJECTMGR_H_
5
6 #include "Object.h"
7 #include "Types.h"
8
9 typedef struct ObjectMgr ObjectMgr;
10
11 PUBLIC void ObjectMgr_delete(ObjectMgr * this);
12 PUBLIC ObjectMgr * ObjectMgr_copy(ObjectMgr * this);
13 PUBLIC ObjectMgr * ObjectMgr_getRef();
14 PUBLIC Object * ObjectMgr_getRef();
15 PUBLIC Object * ObjectMgr_dellocate(ObjectMgr * this, unsigned int size);
16 PUBLIC void ObjectMgr_deallocate(ObjectMgr * this, Object * object);
16 PUBLIC void ObjectMgr_reportUnallocated(ObjectMgr* this);
17 PUBLIC void ObjectMgr_report(ObjectMgr * this);
18
19 #endif /* _OBJECTMGR_H_ */
```

4.54 ObjectMgr.h

```
1 /* ObjectMgr.h */
2
3 #ifndef _OBJECTMGR_H_
4 #define _OBJECTMGR_H_
5
6 #include "Object.h"
7 #include "Types.h"
8
9 typedef struct ObjectMgr ObjectMgr;
10
11 PUBLIC void ObjectMgr_delete(ObjectMgr * this);
12 PUBLIC ObjectMgr * ObjectMgr_copy(ObjectMgr * this);
13 PUBLIC ObjectMgr * ObjectMgr_getRef();
14 PUBLIC Object * ObjectMgr_allocate(ObjectMgr * this, unsigned int size);
15 PUBLIC void ObjectMgr_deallocate(ObjectMgr * this, Object * object);
16 PUBLIC void ObjectMgr_reportUnallocated(ObjectMgr* this);
17 PUBLIC void ObjectMgr_report(ObjectMgr * this);
18
19 #endif /* _OBJECTMGR_H_ */
```

4.55 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ Pool/Pool.c File Reference

This file contains the implementation of the class Pool.

```
#include "Pool.h"
#include "Memory.h"
#include <stdio.h>
```

Macros

- #define CACHE_NB (6)
- #define **END_OF_QUEUE** (0xFFFFFFF)
- #define END OF ALLOC (0xFFFFFFE)
- #define START OF AVAIL (0xFFFFFFD)

Functions

• PRIVATE AllocStatus Pool allocInFile (Pool *pool, unsigned int *ptrldx)

Pool_allocInFile.

PRIVATE void Pool_deallocInMemory (Pool *pool, unsigned int idx)

Pool deallocInMemory.

PRIVATE void Pool_deallocInFile (Pool *pool, unsigned int idx)

Pool deallocInFile.

PRIVATE void Pool_reportInFile (Pool *pool)

Pool_reportInFile.

• PRIVATE void Pool_reportInMemory (Pool *pool)

Pool_reportInMemory.

• PRIVATE void Pool_readInFile (Pool *pool, unsigned int idx, void *p)

Pool_readInFile.

PRIVATE void Pool_readInMemory (Pool *pool, unsigned int idx, void *p)

Pool_readInMemory.

• PRIVATE void Pool_writeInFile (Pool *pool, unsigned int idx, void *p)

Pool_writeInFile.

PRIVATE void Pool_writeInMemory (Pool *pool, unsigned int idx, void *p)

Pool_writeInMemory.

• PUBLIC Pool * Pool_new (unsigned int nbMemChunks, unsigned int memChunkSize)

Create a new instance of the class Pool in RAM.

 PUBLIC Pool * Pool_newFromFile (char *fileName, unsigned int nbMemChunks, unsigned int memChunk← Size)

Create a new instance of the class Pool in a file.

• PUBLIC void Pool_free (Pool *pool)

Pool_free

PUBLIC void * Pool_alloc (Pool *pool, unsigned int *ptrldx)

Pool_alloc.

• PUBLIC void Pool_dealloc (Pool *pool, unsigned int idx)

Pool_dealloc.

PUBLIC void Pool_write (Pool *pool, unsigned int idx, void *ptrContent)

Pool_writeCache.

PUBLIC void * Pool read (Pool *pool, unsigned int idx)

Pool_read.

PUBLIC void Pool_report (Pool *pool)

Pool_report.

PUBLIC unsigned int Pool_reportSizeInBytes (Pool *pool)

Pool reportSizeInBytes input: none.

• PUBLIC unsigned int Pool_reportNbNodes (Pool *pool)

Pool_reportNbNodes.

- PUBLIC void Pool_discardCache (Pool *pool, unsigned int idx)
- PUBLIC void Pool_discardAllCache (Pool *pool)
- PUBLIC unsigned int Pool_reportCacheUsed (Pool *pool)

4.55.1 Detailed Description

This file contains the implementation of the class Pool.

The class List implement the Pool operations

- Alloc
- · De-alloc

4.55.2 Function Documentation

4.55.2.1 Pool_alloc()

Pool_alloc.

Parameters

```
in none
```

Returns

Reference to cache position, NULL is cache full

4.55.2.2 Pool_allocInFile()

Pool_allocInFile.

Parameters

```
in none
```

Returns

none

4.55.2.3 Pool_dealloc()

Pool_dealloc.

Parameters

```
in none
```

Returns

none

4.55.2.4 Pool_deallocInFile()

```
PRIVATE void Pool_deallocInFile (
          Pool * pool,
          unsigned int idx )
```

Pool_deallocInFile.

Parameters

```
in none
```

Returns

none

4.55.2.5 Pool_deallocInMemory()

```
PRIVATE void Pool_deallocInMemory ( \label{eq:pool} \mbox{Pool} * pool, \\ \mbox{unsigned int } idx \; )
```

Pool_deallocInMemory.

Parameters

```
in none
```

Returns

none

4.55.2.6 Pool_free()

```
PUBLIC void Pool_free (
          Pool * pool )
```

Pool free.

Parameters

in	none	

Returns

none

4.55.2.7 Pool_new()

Create a new instance of the class Pool in RAM.

Parameters

in	number	of memory chunks to allocate.
in	size	of memory chunk.

Returns

New instance.

4.55.2.8 Pool_newFromFile()

Create a new instance of the class Pool in a file.

Parameters

	in	File	name
	in	Number	of memory chunks to allocate
Ī	in	Size	of memory chunk return A pool of memory

4.55.2.9 Pool_read()

Pool_read.

Parameters

in	none	
----	------	--

Returns

none

4.55.2.10 Pool_readInFile()

```
PRIVATE void Pool_readInFile ( \label{eq:pool} \texttt{Pool} * pool, \\ \texttt{unsigned int } idx, \\ \texttt{void} * p \; )
```

Pool_readInFile.

Parameters

in	none	

Returns

none

4.55.2.11 Pool_readInMemory()

```
PRIVATE void Pool_readInMemory ( {\tt Pool} * pool,
```

```
unsigned int idx, void * p )
```

Pool_readInMemory.

Parameters

```
in none
```

Returns

none

4.55.2.12 Pool_report()

Pool_report.

Parameters

```
in none
```

Returns

none

4.55.2.13 Pool_reportInFile()

Pool_reportInFile.

Parameters

```
in none
```

Returns

none

4.55.2.14 Pool_reportInMemory()

Pool_reportInMemory.

Parameters

```
in none
```

Returns

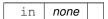
none

4.55.2.15 Pool_reportNbNodes()

```
PUBLIC unsigned int Pool_reportNbNodes ( {\tt Pool} \ * \ pool \ )
```

Pool_reportNbNodes.

Parameters



Returns

none

4.55.2.16 Pool_reportSizeInBytes()

```
PUBLIC unsigned int Pool_reportSizeInBytes ( {\tt Pool} \ * \ pool \ )
```

 ${\sf Pool_reportSizeInBytes\ input:\ none.}$

Returns

none

4.55.2.17 Pool_write()

Pool_writeCache.

4.56 Pool.h 73

Parameters

in <i>r</i>	none
-------------	------

Returns

none none

4.55.2.18 Pool_writeInFile()

```
PRIVATE void Pool_writeInFile ( \label{eq:pool} \texttt{Pool} * pool, \\ \texttt{unsigned int } idx, \\ \texttt{void} * p \ )
```

Pool_writeInFile.

Parameters

```
in none
```

Returns

none

4.55.2.19 Pool_writeInMemory()

```
PRIVATE void Pool_writeInMemory ( \label{eq:pool} \mbox{Pool} * pool, \\ \mbox{unsigned int } idx, \\ \mbox{void} * p \mbox{)}
```

Pool_writeInMemory.

Parameters

```
in none
```

Returns

none

4.56 Pool.h

```
1 #ifndef _POOL_
```

```
2 #define _POOL_
4 * Pool.h
5 *
 #include "Types.h"
8 #include "Pool.h"
10 typedef enum AllocStatus
11 {
      ALLOC OK = 0.
12
       ALLOC_FAIL = 1
13
14 } AllocStatus;
16 typedef struct PoolCache
17 {
1.8
       unsigned int idx:
       unsigned int isUsed;
19
20
       void* cache;
21 } PoolCache;
23 typedef struct Pool Pool;
2.4
25 PUBLIC Pool* Pool_new(unsigned int nbMemChunks, unsigned int memChunkSize);
26 PUBLIC Pool* Pool_newFromFile(char* fileName, unsigned int nbMemChunks, unsigned int memChunkSize);
27 PUBLIC void Pool_free(Pool* pool);
28 PUBLIC void * Pool_alloc(Pool* pool, unsigned int * ptrIdx);
29 PUBLIC void Pool_dealloc(Pool* pool, unsigned int p);
30 PUBLIC void Pool_write(Pool* pool, unsigned int idx, void* ptrContent);
31 PUBLIC void* Pool_read(Pool* pool, unsigned int idx);
32 PUBLIC unsigned int Pool_addToChunkCache(Pool* pool, void* p, unsigned int length);
33 PUBLIC void Pool_report(Pool* pool);
34 PUBLIC unsigned int Pool_reportSizeInBytes(Pool* pool);
35 PUBLIC unsigned int Pool_reportNbNodes(Pool* pool);
36 PUBLIC void Pool_discardCache(Pool* pool, unsigned int idx);
37 PUBLIC void Pool_discardAllCache(Pool* pool);
38 PUBLIC unsigned int Pool_reportCacheUsed(Pool * pool);
39 #endif /* _POOL_ */
```

4.57 Pool.h

```
1 #ifndef _POOL_
2 #define POOL
4 * Pool.h
7 #include "Types.h"
8 #include "Pool.h"
10 typedef enum AllocStatus
11 {
12
      ALLOC_OK = 0,
1.3
      ALLOC\_FAIL = 1
14 } AllocStatus;
15
16 typedef struct PoolCache
18
      unsigned int idx;
19
      unsigned int isUsed;
20
      void* cache:
21 } PoolCache:
22
23 typedef struct Pool Pool;
25 PUBLIC Pool* Pool_new(unsigned int nbMemChunks, unsigned int memChunkSize);
26 PUBLIC Pool* Pool_newFromFile(char* fileName, unsigned int nbMemChunks, unsigned int memChunkSize);
27 PUBLIC void Pool_free(Pool* pool);
28 PUBLIC void * Pool_alloc(Pool* pool, unsigned int * ptrIdx);
29 PUBLIC void Pool_dealloc(Pool* pool, unsigned int p);
30 PUBLIC void Pool_write(Pool* pool, unsigned int idx, void* ptrContent);
31 PUBLIC void* Pool_read(Pool* pool, unsigned int idx);
32 PUBLIC unsigned int Pool_addToChunkCache(Pool* pool, void* p, unsigned int length);
33 PUBLIC void Pool_report(Pool* pool);
34 PUBLIC unsigned int Pool_reportSizeInBytes(Pool* pool);
35 PUBLIC unsigned int Pool_reportNbNodes(Pool* pool);
36 PUBLIC void Pool_discardCache(Pool* pool, unsigned int idx);
37 PUBLIC void Pool_discardAllCache(Pool* pool);
38 PUBLIC unsigned int Pool_reportCacheUsed(Pool * pool);
39 #endif /* _POOL_ */
```

4.58 /home/thomas/Projects/SParse-master/SParse/src/CommonLib/ SkipList/SkipList.c File Reference

This file contains the implementation of the class SkipList. The class List implement the SkipList operations.

```
#include "SkipList.h"
#include "Pool.h"
#include "Class.h"
#include "Object.h"
#include <limits.h>
#include <stdlib.h>
```

Classes

struct SkipNode

Macros

#define SKIPLIST_MAX_LEVEL (6)

Typedefs

• typedef struct SkipNode SkipNode

Functions

- PRIVATE unsigned int **SkipList_randLevel** (SkipList *this)
- PRIVATE unsigned int SkipList_reportCache (SkipList *this)
- PRIVATE unsigned int myGreateOrEqual (unsigned int k1, unsigned int k2)
- PRIVATE unsigned int myGreater (unsigned int k1, unsigned int k2)
- PRIVATE unsigned int **myEqual** (unsigned int k1, unsigned int k2)
- PUBLIC SkipList * SkipList_new (unsigned int maxObjectNb)

```
SkipList_new.
```

• PUBLIC void SkipList_delete (SkipList *this)

SkipList_free.

PUBLIC SkipList * SkipList_copy (SkipList *this)

SkipList_copy.

• PUBLIC void SkipList_add (SkipList *this, unsigned int key, void *object)

SkipList add.

• PUBLIC void * SkipList_remove (SkipList *this, unsigned int key)

SkipList delete.

- PUBLIC void * **SkipList_get** (SkipList *this, unsigned int key)
- PUBLIC int SkipList_compare (SkipList *this, SkipList *compared)

SkipList_compare.

PUBLIC void SkipList print (SkipList *this)

SkipList_print.

4.58.1 Detailed Description

This file contains the implementation of the class SkipList. The class List implement the SkipList operations.

- Add
- Remove
- Get

4.58.2 Function Documentation

4.58.2.1 SkipList_add()

SkipList_add.

Parameters

in	Key	to index object
in	Object	to add to SkipList object.

Returns

None

4.58.2.2 SkipList_compare()

SkipList_compare.

Parameters

in	None	

Returns

None

4.58.2.3 SkipList_copy()

```
PUBLIC SkipList * SkipList_copy (
          SkipList * this )
```

SkipList_copy.

Parameters

in	Instance	to copy
----	----------	---------

Returns

None

4.58.2.4 SkipList_delete()

```
PUBLIC void SkipList_delete (
           SkipList * this )
```

SkipList_free.

Parameters

in	Instance	to destroy
----	----------	------------

Returns

None

4.58.2.5 SkipList_new()

```
PUBLIC SkipList * SkipList_new (
           unsigned int maxObjectNb )
```

SkipList_new.

Parameters

III HOHE	in		
------------	----	--	--

Returns

New instance of class SkipList.

4.58.2.6 SkipList_print()

SkipList_print.

Parameters

```
in None
```

Returns

None

4.58.2.7 SkipList_remove()

SkipList_delete.

Parameters

```
in Key of object to remove
```

Returns

Object removed from SkipList object.

4.59 SkipList.h

```
1 #ifndef _SKIPLIST_
2 #define _SKIPLIST_
3 /* SkipList.h */
```

4.60 SkipList.h 79

```
4 #include "Types.h"
5 #include "Pool.h"
6
7 typedef struct SkipList SkipList;
8
9 PUBLIC SkipList* SkipList_new();
10 PUBLIC void SkipList_delete(SkipList* skipList);
11 PUBLIC SkipList * SkipList_copy(SkipList * this);
12 PUBLIC Void SkipList_add(SkipList* this, unsigned int key, void* object);
13 PUBLIC void * SkipList_add(SkipList* this, unsigned int key);
14 PUBLIC void * SkipList_get(SkipList* this, unsigned int key);
15 PUBLIC int SkipList_compare(SkipList* this, SkipList * compared);
16 PUBLIC void SkipList_print(SkipList* this);
17 #endif /* _SKIPLIST_ */
```

4.60 SkipList.h

```
1 #ifndef _SKIPLIST_
2 #define _SKIPLIST_
3 /* SkipList.h */
4 #include "Types.h"
5 #include "Pool.h"
6
7 typedef struct SkipList SkipList;
8
9 PUBLIC SkipList* SkipList_new();
10 PUBLIC void SkipList_delete(SkipList* skipList);
11 PUBLIC SkipList * SkipList_copy(SkipList * this);
12 PUBLIC void SkipList_add(SkipList* this, unsigned int key, void* object);
13 PUBLIC void * SkipList_remove(SkipList* this, unsigned int key);
14 PUBLIC void * SkipList_get(SkipList* this, unsigned int key);
15 PUBLIC int SkipList_get(SkipList* this, unsigned int key);
16 PUBLIC void SkipList_print(SkipList* this, SkipList * compared);
17 #endif /* _SKIPLIST_ */
```

4.61 String2.h

```
1 /* String2.h */
3 #ifndef _STRING2_H_
4 #define _STRING2_H_
6 #include "Types.h"
7 #include "List.h"
9 typedef struct String String;
1.0
11 PUBLIC String * String_new(const char * constString);
12 PUBLIC void String_delete(String * this);
13 PUBLIC String * String_copy(String * this);
14 PUBLIC String * String_getRef(String * this);
15 PUBLIC unsigned int String_getLength(String * this);
16 PUBLIC char * String_getBuffer(String * this);
17 PUBLIC void String_setBuffer(String * this, char * buffer);
18 PUBLIC unsigned int String_isContained(String * this, String * s2);
19 PUBLIC unsigned int String_prepend(String * this, const char * prefix);
20 PUBLIC unsigned int String_append(String* this, const char* postfix);
21 PUBLIC int String_compare(String * this, String * compared);
22 PUBLIC String * String_subString(String * this, unsigned int idx, unsigned int length);
23 PUBLIC unsigned int String_matchWildcard(String * this, const char * wildcard);
24 PUBLIC int String toInt(String* this);
25 PUBLIC List* String_splitToken(String* this, const char* separator);
26 PUBLIC void String_stealBuffer(String* this, String* s);
27 #endif /* _STRING2_H_ */
```

4.62 String2.h

```
1 /* String2.h */
2
3 #ifndef _STRING2_H_
4 #define _STRING2_H_
5
6 #include "Types.h"
7 #include "List.h"
```

```
9 typedef struct String String;
10
11 PUBLIC String * String_new(const char * constString);
12 PUBLIC void String_delete(String * this);
13 PUBLIC String * String_copy(String * this);
14 PUBLIC String * String_getRef(String * this);
15 PUBLIC unsigned int String_getLength(String * this);
16 PUBLIC char * String_getBuffer(String * this);
17 PUBLIC void String_setBuffer(String * this, char * buffer);
18 PUBLIC unsigned int String_isContained(String * this, String * s2);
19 PUBLIC unsigned int String_prepend(String * this, const char * prefix);
20 PUBLIC unsigned int String_append(String * this, const char* postfix);
21 PUBLIC int String_compare(String * this, String * compared);
22 PUBLIC String * String_subString(String * this, unsigned int idx, unsigned int length);
23 PUBLIC unsigned int String_matchWildcard(String * this, const char * wildcard);
24 PUBLIC List* String_splitToken(String* this, const char* separator);
25 PUBLIC List* String_stealBuffer(String* this, String* s);
27 #endif /* _STRING2_H_ */
```

4.63 Times.h

```
1 /* Time.h */
2
3 long double get_wall_time();
4 long double get_cpu_time();
5
```

4.64 Times.h

```
1 /* Time.h */
2
3 long double get_wall_time();
4 long double get_cpu_time();
5
```

4.65 Types.h

```
1 /* Types.h */
2
3 #ifndef _TYPES_H_
4 #define _TYPES_H_
5
6 #define PUBLIC
7
8 #ifndef UNIT_TEST
9 #define PRIVATE static
10 #else
11 #define PRIVATE
12 #endif
13 #endif /* _TYPES_H_ */
```

4.66 Types.h

```
1 /* Types.h */
2
3 #ifndef _TYPES_H_
4 #define _TYPES_H_
5
6 #define PUBLIC
7
8 #ifndef UNIT_TEST
9 #define PRIVATE static
10 #else
11 #define PRIVATE
12 #endif
13 #endif /* _TYPES_H_ */
```

4.67 Declarator.h

4.67 Declarator.h

```
1 /* Declarator.h */
2
3 #ifndef _DECLARATOR_H_
4 #define _DECLARATOR_H_
5
6 typedef enum
7 {
8     E_DEC_FUNCTION,
9     E_DEC_TYPE
11 } DeclaratorType;
12
13 typedef struct Declarator Declarator;
14
15 Declarator * Declarator_new(DeclaratorType * t)
16 {
17 }
18
19 void Declarator_delete(Declarator * this)
20 {
21 }
22
23 #endif /* #ifndef _DECLARATOR_H_
```

4.68 /home/thomas/Projects/SParse-master/SParse/src/ParseLib/File Reader/FileReader.c File Reference

This file contains the implementation for the class FileReader.

```
#include "FileReader.h"
#include "Class.h"
#include "Object.h"
#include "String2.h"
#include "FileMgr.h"
#include "FileDesc.h"
#include "OptionMgr.h"
#include "List.h"
#include "Error.h"
#include "Memory.h"
```

Classes

- struct IncludeInfo
- class FileReader

Functions

- PRIVATE void FileReader_getListPreferredDir (FileReader *this)
- PRIVATE void FileReader_deleteListPreferredDir (FileReader *this)
- PRIVATE void FileReader_printListPreferredDir (FileReader *this)

4.68.1 Detailed Description

This file contains the implementation for the class FileReader.

The class FileReader is TBD

4.69 FileReader.h

```
1 /* FileReader.h */
2
3 #ifndef _FILEREADER_H_
4 #define _FILEREADER_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct FileReader FileReader;
10
11 PUBLIC FileReader * FileReader_new();
12 PUBLIC void FileReader_delete(FileReader * this);
13 PUBLIC FileReader * FileReader_copy(FileReader * this);
14 PUBLIC char * FileReader_getBuffer(FileReader * this);
15 PUBLIC String * FileReader_getName(FileReader * this);
16 PUBLIC char * FileReader_addFile(FileReader * this);
17 #endif /* _FILEREADER_H_ */
```

4.70 FileReader.h

```
1 /* FileReader.h */
2
3 #ifndef _FILEREADER_H_
4 #define _FILEREADER_H_
5
6 #include "Types.h"
7 #include "String2.h"
8
9 typedef struct FileReader FileReader;
10
11 PUBLIC FileReader * FileReader_new();
12 PUBLIC void FileReader_delete(FileReader * this);
13 PUBLIC FileReader * FileReader_copy(FileReader * this);
14 PUBLIC char * FileReader_getBuffer(FileReader * this);
15 PUBLIC String * FileReader_getName(FileReader * this);
16 PUBLIC char * FileReader_addFile(FileReader * this);
17 #endif /* _FILEREADER_H_ */
```

4.71 Grammar2.h

```
1 /* Grammar2.h */
2
3 #include "Types.h"
4 #include "SdbMgr.h"
5 #include "FileReader.h"
6
7 typedef struct Grammar2 Grammar2;
8
9 PUBLIC Grammar2 * Grammar2_new(FileReader * fr, SdbMgr * sdbMgr);
10 PUBLIC void Grammar2_delete(Grammar2 * this);
11 PUBLIC Grammar2 * Grammar2_copy(Grammar2 * this);
12 PUBLIC void Grammar2_process(Grammar2 * this);
13 PUBLIC FileReader * Grammar2_getFileReader(Grammar2 * grammar);
14 PUBLIC SdbMgr * Grammar2_getSdbMgr(Grammar2 * grammar);
15 PUBLIC void Grammar2_addToBuffer(Grammar2 * grammar, char * text);
16 PUBLIC void Grammar2_addComment(Grammar2 * this);
17 PUBLIC void Grammar2_addCodeNode(Grammar2 * this);
18 PUBLIC void Grammar2_addIncludeNode(Grammar2 * this, char * name);
19 PUBLIC char * Grammar2_processNewFile(Grammar2 * this, String * fileName);
20 PUBLIC void Grammar2 returnToFile(Grammar2 * this);
```

4.72 Grammar2.h

```
1 /* Grammar2.h */
2
3 #include "Types.h"
4 #include "SdbMgr.h"
5 #include "FileReader.h"
6
7 typedef struct Grammar2 Grammar2;
8
9 PUBLIC Grammar2 * Grammar2_new(FileReader * fr, SdbMgr * sdbMgr);
10 PUBLIC void Grammar2_delete(Grammar2 * this);
```

```
11 PUBLIC Grammar2 * Grammar2_copy(Grammar2 * this);
12 PUBLIC void Grammar2_process(Grammar2 * this);
13 PUBLIC FileReader * Grammar2_getFileReader(Grammar2 * grammar);
14 PUBLIC SdbMgr * Grammar2_getSdbMgr(Grammar2 * grammar);
15 PUBLIC void Grammar2_addToBuffer(Grammar2 * grammar, char * text);
16 PUBLIC void Grammar2_addComment(Grammar2 * this);
17 PUBLIC void Grammar2_addCodeNode(Grammar2 * this);
18 PUBLIC void Grammar2_addIncludeNode(Grammar2 * this, char * name);
19 PUBLIC char * Grammar2_processNewFile(Grammar2 * this, String * fileName);
20 PUBLIC void Grammar2_returnToFile(Grammar2 * this);
```

4.73 Grammar2.parse.h

```
1 /* A Bison parser, made by GNU Bison 3.8.2. */
3 /* Bison interface for Yacc-like parsers in C
     Copyright (C) 1984, 1989-1990, 2000-2015, 2018-2021 Free Software Foundation,
6
     This program is free software: you can redistribute it and/or modify
     it under the terms of the GNU General Public License as published by
1.0
      the Free Software Foundation, either version 3 of the License, or
11
      (at your option) any later version.
12
      This program is distributed in the hope that it will be useful,
13
      but WITHOUT ANY WARRANTY; without even the implied warranty of
      MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
16
      GNU General Public License for more details
17
      You should have received a copy of the GNU General Public License
18
      along with this program. If not, see <a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>. */
19
20
21 /\star As a special exception, you may create a larger work that contains
      part or all of the Bison parser skeleton and distribute that work
22
2.3
      under terms of your choice, so long as that work isn't itself a
      parser generator using the skeleton or a modified version thereof as a parser skeleton. Alternatively, if you modify or redistribute
24
25
      the parser skeleton itself, you may (at your option) remove this special exception, which will cause the skeleton and the resulting
26
      Bison output files to be licensed under the GNU General Public
28
29
      License without this special exception.
30
31
      This special exception was added by the Free Software Foundation in
32
      version 2.2 of Bison. */
34 /* DO NOT RELY ON FEATURES THAT ARE NOT DOCUMENTED in the manual,
      especially those whose name start with YY_ or yy_.
35
36
      private implementation details that can be changed or removed. \star/
37
38 #ifndef YY_GRAMMAR2_GRAMMAR2_PARSE_H_INCLUDED
39 # define YY_GRAMMAR2_GRAMMAR2_PARSE_H_INCLUDED
40 /* Debug traces.
41 #ifndef YYDEBUG
42 # define YYDEBUG 0
43 #endif
44 #if YYDEBUG
45 extern int Grammar2_debug;
46 #endif
48 /* Token kinds. */
49 #ifndef YYTOKENTYPE
50 # define YYTOKENTYPE
51
    enum yytokentype
       YYEMPTY = -2,
53
       YYEOF = 0,
YYerror = 256,
YYUNDEF = 257,
                                          /* "end of file" */
54
5.5
                                          /* error */
                                          /* "invalid token" */
56
                                          /* COMMENT */
57
       COMMENT = 258,
       CODE = 259,
                                          /* CODE */
50
       END_OF_UNIT = 260
                                          /* END_OF_UNIT */
60
    };
61
     typedef enum yytokentype yytoken_kind_t;
62 #endif
63 /* Token kinds. */
64 #define YYEMPTY -2
65 #define YYEOF 0
66 #define YYerror 256
67 #define YYUNDEF 257
68 #define COMMENT 258
69 #define CODE 259
70 #define END_OF_UNIT 260
```

```
72 /* Value type. */
73 #if ! defined YYSTYPE && ! defined YYSTYPE_IS_DECLARED
74 union YYSTYPE
76 #line 18 "Grammar2.y"
78
    String * text;
79
80 #line 81 "Grammar2.parse.h"
81
82 1:
83 typedef union YYSTYPE YYSTYPE;
84 # define YYSTYPE_IS_TRIVIAL 1
85 # define YYSTYPE_IS_DECLARED 1
86 #endif
88
91 int Grammar2_parse (void * scanner, Grammar2 * grammar);
94 #endif /* !YY GRAMMAR2 GRAMMAR2 PARSE H INCLUDED */
```

4.74 /home/thomas/Projects/SParse-master/SParse/src/ParseLib/ SParse/SParse.c File Reference

This file contains the implementation for the class SParse.

```
#include "SParse.h"
#include "Class.h"
#include "Object.h"
#include "FileReader.h"
#include "SdbMgr.h"
#include "Error.h"
#include "Grammar2.h"
#include "FileMgr.h"
#include "FileDesc.h"
#include "List.h"
```

Classes

· class SParse

Functions

- PRIVATE unsigned int SParse_parseFile (SParse *this, FileDesc *fileDesc)
- PRIVATE void SParse_buildPreferredDirList (SParse *this, const char *extension)
- PUBLIC SParse * SParse_copy (SParse *this)

4.74.1 Detailed Description

This file contains the implementation for the class SParse.

The class SParse parses all files with extension .X and stores the result of the parsing in the SQLite DB name.

4.75 SParse.h

4.75 SParse.h

```
1 /* SParse.h */
2
3 #ifndef _SPARSE_H_
4 #define _SPARSE_H_
5
6 #include "Types.h"
7
8 typedef struct SParse SParse;
9
10 PUBLIC SParse *SParse_new(/* Sdb name */);
11 PUBLIC void SParse_delete(SParse * this);
12 PUBLIC SParse * SParse_copy(SParse * this);
13 PUBLIC unsigned int SParse_parse(SParse * this, const char * extension);
14
15 #endif /* _SPARSE_H_ */
```

4.76 SParse.h

```
1 /* SParse.h */
2
3 #ifndef _SPARSE_H_
4 #define _SPARSE_H_
5
6 #include "Types.h"
7
8 typedef struct SParse SParse;
9
10 PUBLIC SParse *SParse_new(/* Sdb name */);
11 PUBLIC void SParse_delete(SParse * this);
12 PUBLIC SParse * SParse_copy(SParse * this);
13 PUBLIC unsigned int SParse_parse(SParse * this, const char * extension);
14
15 #endif /* _SPARSE_H_ */
```

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