MyVensim

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Chapter 1

bcc-322

Código referente ao trabalho prático desenvolvido para a disciplina Engenharia de Software I.

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Flow																			 			9
FlowExponential	١.									 					 				 			15
FlowLogistical .										 					 							17
Model																			 			20
System																						26

4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

w	9
wExponential	15
wLogistical	17
odel	20
stem	26

6 Class Index

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

src/flow.cpp	33
src/flow.h	33
src/main.cpp	
src/model.cpp	
src/model.h	37
src/system.cpp	40
src/system.h	40
est/funcional/flowExponential.cpp	
est/funcional/flowExponential.h	
est/funcional/flowLogistical.cpp	44
est/funcional/flowLogistical.h	
rest/funcional/funcional_tests.cpp	
rest/funcional/funcional_tests.h	
est/funcional/main.cpp	35

8 File Index

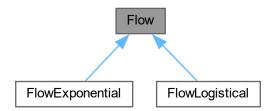
Chapter 5

Class Documentation

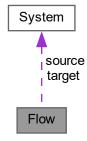
5.1 Flow Class Reference

#include <flow.h>

Inheritance diagram for Flow:



Collaboration diagram for Flow:



Public Member Functions

- Flow ()
- Flow (Flow &obj)
- Flow (const string name, System *source, System *target)
- virtual ∼Flow ()
- string getName () const
- void setName (const string name)
- System * getSource () const
- void setSource (System *source)
- System * getTarget () const
- void setTarget (System *target)
- bool operator== (const Flow &obj) const
- bool operator!= (const Flow &obj) const
- Flow & operator= (const Flow &obj)
- virtual float execute ()=0

Protected Attributes

- string name
- System * source
- System * target

5.1.1 Constructor & Destructor Documentation

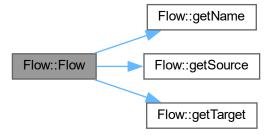
5.1.1.1 Flow() [1/3]

```
Flow::Flow ( )
```

5.1.1.2 Flow() [2/3]

```
Flow::Flow (
            Flow & obj )
```

Here is the call graph for this function:



5.1 Flow Class Reference

5.1.1.3 Flow() [3/3]

5.1.1.4 ∼Flow()

```
Flow::\simFlow ( ) [virtual]
```

5.1.2 Member Function Documentation

5.1.2.1 execute()

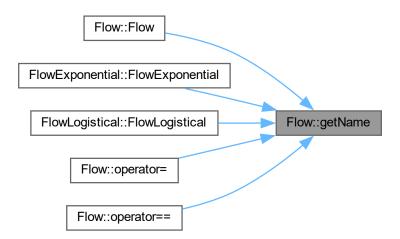
```
virtual float Flow::execute ( ) [pure virtual]
```

Implemented in FlowExponential, and FlowLogistical.

5.1.2.2 getName()

```
string Flow::getName ( ) const
```

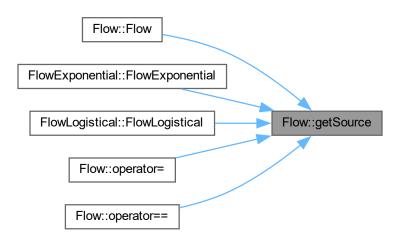
Here is the caller graph for this function:



5.1.2.3 getSource()

```
System * Flow::getSource ( ) const
```

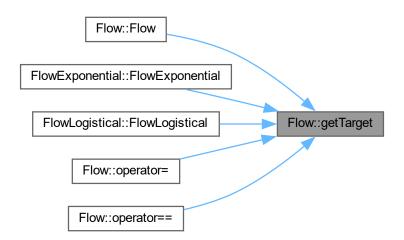
Here is the caller graph for this function:



5.1.2.4 getTarget()

System * Flow::getTarget () const

Here is the caller graph for this function:



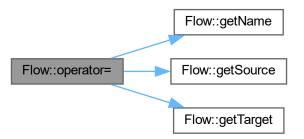
5.1 Flow Class Reference

5.1.2.5 operator"!=()

```
bool Flow::operator!= ( {\tt const\ Flow\ \&\ obj\ )\ const}
```

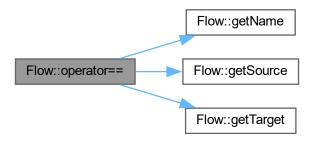
5.1.2.6 operator=()

Here is the call graph for this function:



5.1.2.7 operator==()

Here is the call graph for this function:



5.1.2.8 setName()

5.1.2.9 setSource()

5.1.2.10 setTarget()

5.1.3 Member Data Documentation

5.1.3.1 name

```
string Flow::name [protected]
```

5.1.3.2 source

```
System* Flow::source [protected]
```

5.1.3.3 target

```
System* Flow::target [protected]
```

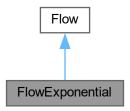
The documentation for this class was generated from the following files:

- src/flow.h
- src/flow.cpp

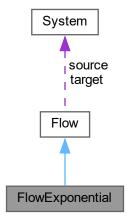
5.2 FlowExponential Class Reference

#include <flowExponential.h>

Inheritance diagram for FlowExponential:



Collaboration diagram for FlowExponential:



Public Member Functions

- FlowExponential ()
- FlowExponential (Flow &obj)
- FlowExponential (const string name, System *source, System *target)
- virtual \sim FlowExponential ()
- virtual float execute ()

Public Member Functions inherited from Flow

- Flow ()
- Flow (Flow &obj)
- Flow (const string name, System *source, System *target)
- virtual ∼Flow ()
- string getName () const
- void setName (const string name)
- System * getSource () const
- void setSource (System *source)
- System * getTarget () const
- void setTarget (System *target)
- bool operator== (const Flow &obj) const
- bool operator!= (const Flow &obj) const
- Flow & operator= (const Flow &obj)
- virtual float execute ()=0

Additional Inherited Members

Protected Attributes inherited from Flow

- string name
- System * source
- System * target

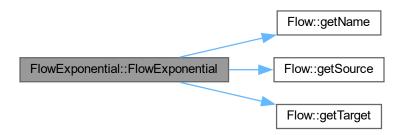
5.2.1 Constructor & Destructor Documentation

5.2.1.1 FlowExponential() [1/3]

```
FlowExponential::FlowExponential ( )
```

5.2.1.2 FlowExponential() [2/3]

Here is the call graph for this function:



5.2.1.3 FlowExponential() [3/3]

5.2.1.4 ∼FlowExponential()

```
{\tt FlowExponential::} {\sim} {\tt FlowExponential ( ) [virtual]}
```

5.2.2 Member Function Documentation

5.2.2.1 execute()

```
float FlowExponential::execute ( ) [virtual]
```

Implements Flow.

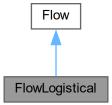
The documentation for this class was generated from the following files:

- test/funcional/flowExponential.h
- test/funcional/flowExponential.cpp

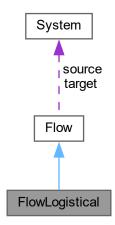
5.3 FlowLogistical Class Reference

```
#include <flowLogistical.h>
```

Inheritance diagram for FlowLogistical:



Collaboration diagram for FlowLogistical:



Public Member Functions

- FlowLogistical ()
- FlowLogistical (Flow &obj)
- FlowLogistical (const string name, System *source, System *target)
- virtual ∼FlowLogistical ()
- virtual float execute ()

Public Member Functions inherited from Flow

- Flow ()
- Flow (Flow &obj)
- Flow (const string name, System *source, System *target)
- virtual ∼Flow ()
- string getName () const
- void setName (const string name)
- System * getSource () const
- void setSource (System *source)
- System * getTarget () const
- void setTarget (System *target)
- bool operator== (const Flow &obj) const
- bool operator!= (const Flow &obj) const
- Flow & operator= (const Flow &obj)
- virtual float execute ()=0

Additional Inherited Members

Protected Attributes inherited from Flow

- · string name
- System * source
- System * target

5.3.1 Constructor & Destructor Documentation

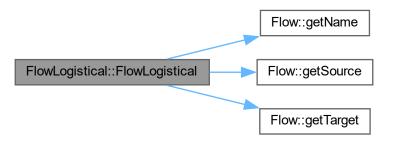
5.3.1.1 FlowLogistical() [1/3]

```
FlowLogistical::FlowLogistical ( )
```

5.3.1.2 FlowLogistical() [2/3]

```
\label{lowLogistical::FlowLogistical} \begin{tabular}{ll} Flow Logistical & obj \end{tabular} \end{tabular}
```

Here is the call graph for this function:



5.3.1.3 FlowLogistical() [3/3]

5.3.1.4 \sim FlowLogistical()

```
FlowLogistical::~FlowLogistical ( ) [virtual]
```

5.3.2 Member Function Documentation

5.3.2.1 execute()

```
float FlowLogistical::execute ( ) [virtual]
```

Implements Flow.

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

- · test/funcional/flowLogistical.h
- test/funcional/flowLogistical.cpp

5.4 Model Class Reference

```
#include <model.h>
```

Public Types

- typedef vector< Flow * >::iterator itFlow
- typedef vector < System * >::iterator itSystem

Public Member Functions

- Model ()
- Model (const string name)
- Model (const string name, vector< Flow * > &flows, vector< System * > &systems)
- virtual ∼Model ()
- string getName () const
- void setName (const string name)
- itFlow getFlowBegin ()
- itFlow getFlowEnd ()
- int getFlowSize ()
- itSystem getSystemBegin ()
- itSystem getSystemEnd ()
- int getSystemSize ()
- void add (System *)
- void add (Flow *)
- bool remove (System *)
- bool remove (Flow *)
- void clear ()
- void show ()
- void run (int, int, int)

5.4 Model Class Reference 21

Protected Attributes

```
• string name
```

```
vector< Flow * > flows
```

5.4.1 Member Typedef Documentation

5.4.1.1 itFlow

```
typedef vector<Flow*>::iterator Model::itFlow
```

5.4.1.2 itSystem

```
typedef vector<System*>::iterator Model::itSystem
```

5.4.2 Constructor & Destructor Documentation

5.4.2.1 Model() [1/3]

```
Model::Model ( )
```

5.4.2.2 Model() [2/3]

5.4.2.3 Model() [3/3]

vector< System * > systems

5.4.2.4 \sim Model()

```
Model::~Model ( ) [virtual]
```

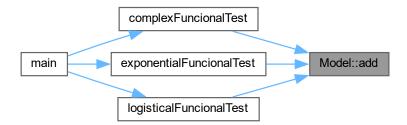
5.4.3 Member Function Documentation

5.4.3.1 add() [1/2]

```
void Model::add ( {\tt Flow} \ * \ {\tt flow} \ )
```

5.4.3.2 add() [2/2]

Here is the caller graph for this function:

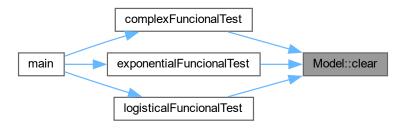


5.4 Model Class Reference 23

5.4.3.3 clear()

```
void Model::clear ( )
```

Here is the caller graph for this function:



5.4.3.4 getFlowBegin()

```
Model::itFlow Model::getFlowBegin ( )
```

5.4.3.5 getFlowEnd()

```
Model::itFlow Model::getFlowEnd ( )
```

5.4.3.6 getFlowSize()

```
int Model::getFlowSize ( )
```

5.4.3.7 getName()

```
string Model::getName ( ) const
```

5.4.3.8 getSystemBegin()

```
Model::itSystem Model::getSystemBegin ( )
```

5.4.3.9 getSystemEnd()

```
Model::itSystem Model::getSystemEnd ( )
```

5.4.3.10 getSystemSize()

```
int Model::getSystemSize ( )
```

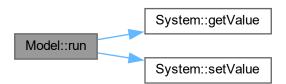
5.4.3.11 remove() [1/2]

```
bool Model::remove ( {\tt Flow} \ * \ obj \ )
```

5.4.3.12 remove() [2/2]

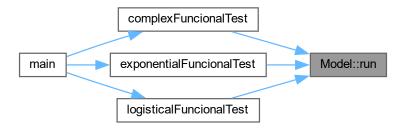
5.4.3.13 run()

Here is the call graph for this function:



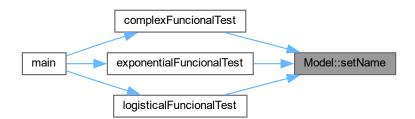
5.4 Model Class Reference 25

Here is the caller graph for this function:



5.4.3.14 setName()

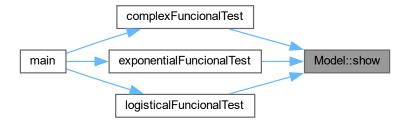
Here is the caller graph for this function:



5.4.3.15 show()

```
void Model::show ( )
```

Here is the caller graph for this function:



5.4.4 Member Data Documentation

5.4.4.1 flows

```
vector<Flow*> Model::flows [protected]
```

5.4.4.2 name

string Model::name [protected]

5.4.4.3 systems

```
vector<System*> Model::systems [protected]
```

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

- src/model.h
- src/model.cpp

5.5 System Class Reference

#include <system.h>

Public Member Functions

- System ()
- System (const string name)
- System (float value)
- System (System &obj)
- System (const string name, float value)
- virtual ∼System ()
- string getName () const
- void setName (const string name)
- float getValue () const
- void setValue (float value)
- System & operator= (const System &obj)

Protected Attributes

- string name
- float value

5.5.1 Constructor & Destructor Documentation

5.5.1.1 System() [1/5]

```
System::System ( )
```

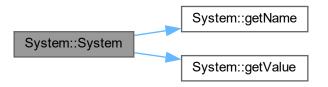
5.5.1.2 System() [2/5]

5.5.1.3 System() [3/5]

```
System::System (
     float value )
```

5.5.1.4 System() [4/5]

Here is the call graph for this function:



5.5.1.5 System() [5/5]

5.5.1.6 ∼System()

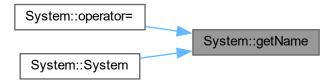
```
\texttt{System::} \sim \texttt{System ( )} \quad \texttt{[virtual]}
```

5.5.2 Member Function Documentation

5.5.2.1 getName()

```
string System::getName ( ) const
```

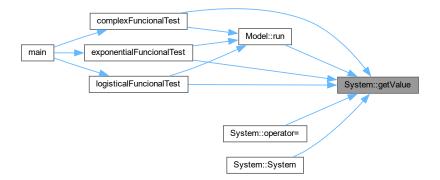
Here is the caller graph for this function:



5.5.2.2 getValue()

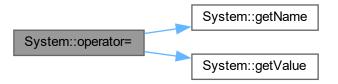
float System::getValue () const

Here is the caller graph for this function:



5.5.2.3 operator=()

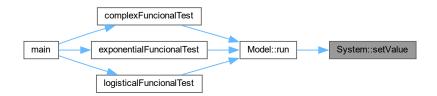
Here is the call graph for this function:



5.5.2.4 setName()

5.5.2.5 setValue()

Here is the caller graph for this function:



5.5.3 Member Data Documentation

5.5.3.1 name

```
string System::name [protected]
```

5.5.3.2 value

```
float System::value [protected]
```

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

- src/system.h
- src/system.cpp

32 Class Documentation

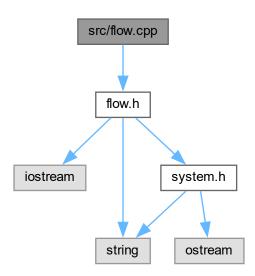
Chapter 6

File Documentation

6.1 README.md File Reference

6.2 src/flow.cpp File Reference

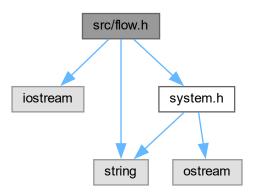
#include "flow.h"
Include dependency graph for flow.cpp:



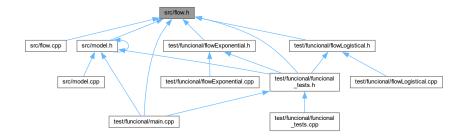
6.3 src/flow.h File Reference

#include <iostream>
#include <string>

```
#include "system.h"
Include dependency graph for flow.h:
```



This graph shows which files directly or indirectly include this file:



Classes

· class Flow

6.4 flow.h

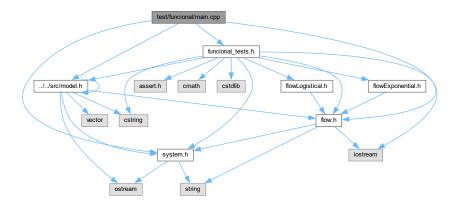
Go to the documentation of this file.

```
00015
                Flow(Flow &obj);
00016
                Flow(const string name, System *source, System *target);
00017
                virtual ~Flow();
00018
00019
                string getName() const;
00020
                void setName(const string name);
00021
                System *getSource() const;
00022
                void setSource(System *source);
00023
                System *getTarget() const;
00024
                void setTarget(System *target);
00025
                bool operator==(const Flow &obj) const;
bool operator!=(const Flow &obj) const;
Flow &operator= (const Flow &obj);
00026
00027
00028
00029
00030
                virtual float execute() = 0;
00031 };
00032
00033 #endif
```

6.5 src/main.cpp File Reference

6.6 test/funcional/main.cpp File Reference

```
#include "funcional_tests.h"
#include "..\.\src\model.h"
#include "..\.\src\system.h"
#include dependency graph for main.cpp:
```



Macros

• #define MAIN_FUNCIONAL_TESTS

Functions

• int main ()

6.6.1 Macro Definition Documentation

6.6.1.1 MAIN_FUNCIONAL_TESTS

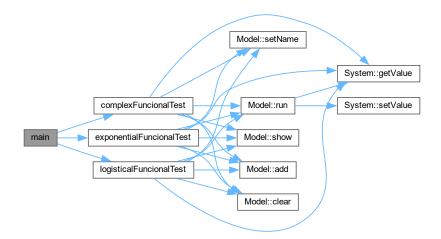
#define MAIN_FUNCIONAL_TESTS

6.6.2 Function Documentation

6.6.2.1 main()

int main ()

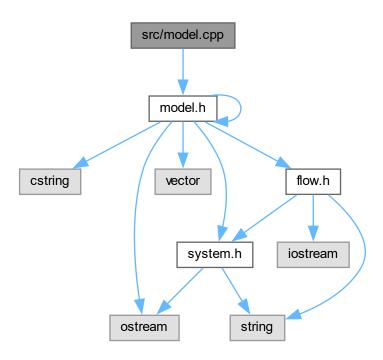
Here is the call graph for this function:



6.7 src/model.cpp File Reference

#include "model.h"

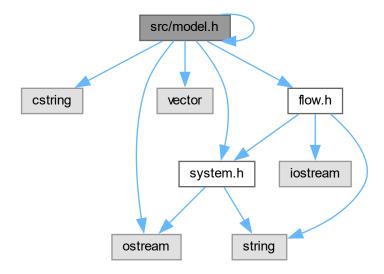
Include dependency graph for model.cpp:



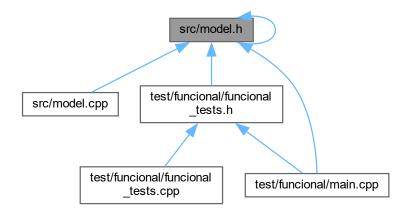
6.8 src/model.h File Reference

```
#include <cstring>
#include <ostream>
#include <vector>
#include "flow.h"
#include "system.h"
#include "model.h"
```

Include dependency graph for model.h:



This graph shows which files directly or indirectly include this file:



Classes

• class Model

6.9 model.h

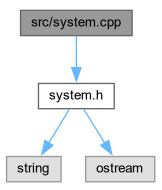
Go to the documentation of this file.

6.9 model.h 39

```
00001 #ifndef MODEL_H
00002 #define MODEL_H
00003 #include <cstring>
00004 #include <ostream>
00005 #include <vector>
00006 #include "flow.h"
00007 //#include "flowExponential.h"
00008 //#include "flowLogistic.h"
00009 #include "system.h"
00010 #include "model.h"
00011
00012 class Model {
         protected:
00013
00014
              string name;
00015
               vector<Flow*> flows;
00016
               vector<System*> systems;
00017
00018
          private:
               Model (Model & obj);
00020
               Model& operator= (const Model& obj);
00021
           public:
00022
00023
               Model();
               Model(const string name);
Model(const string name, vector<Flow*> &flows, vector<System*> &systems);
00024
00025
00026
               virtual ~Model();
00027
00028
               typedef typename vector<Flow*> :: iterator itFlow;
               typedef typename vector<System*> :: iterator itSystem;
00029
00030
00031
               string getName() const;
00032
               void setName(const string name);
00033
00034
               itFlow getFlowBegin();
00035
               itFlow getFlowEnd();
00036
               int getFlowSize();
00037
               itSystem getSystemBegin();
00039
               itSystem getSystemEnd();
00040
               int getSystemSize();
00041
00042
               void add(System*);
void add(Flow*);
00043
00044
               bool remove(System*);
00045
               bool remove(Flow*);
00046
               void clear();
00047
               void show();
00048
               void run(int, int, int);
00049 };
00050
00051 #endif
```

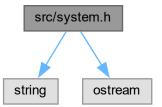
6.10 src/system.cpp File Reference

#include "system.h"
Include dependency graph for system.cpp:



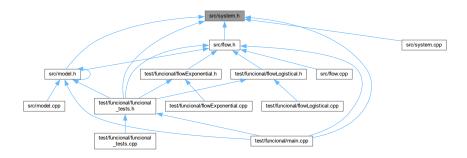
6.11 src/system.h File Reference

#include <string>
#include <ostream>
Include dependency graph for system.h:



6.12 system.h 41

This graph shows which files directly or indirectly include this file:



Classes

· class System

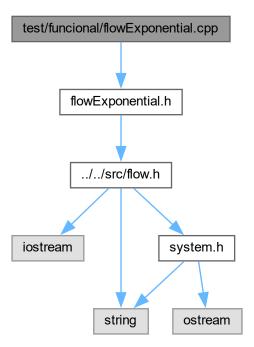
6.12 system.h

Go to the documentation of this file.

```
00001 #ifndef SYSTEM_H
00002 #define SYSTEM_H
00003
00004 #include <string>
00005 #include <ostream>
00006
00007 using namespace std;
00009 class System {
00010
         protected:
00011
               string name;
00012
               float value;
00013
00014
           public:
00015
               System();
00016
               System(const string name);
00017
               System(float value);
00018
00019
               System(System& obj);
               System(const string name, float value);
virtual ~System();
00020
00021
00022
               string getName() const;
00023
               void setName(const string name);
               float getValue() const;
void setValue(float value);
00024
00025
00026
00027
               System& operator= (const System& obj);
00028 };
00029
00030 #endif
```

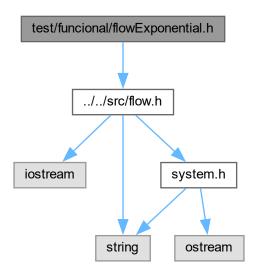
6.13 test/funcional/flowExponential.cpp File Reference

#include "flowExponential.h"
Include dependency graph for flowExponential.cpp:

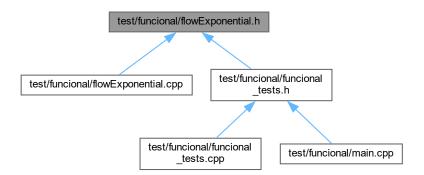


6.14 test/funcional/flowExponential.h File Reference

#include "../../src/flow.h"
Include dependency graph for flowExponential.h:



This graph shows which files directly or indirectly include this file:



Classes

class FlowExponential

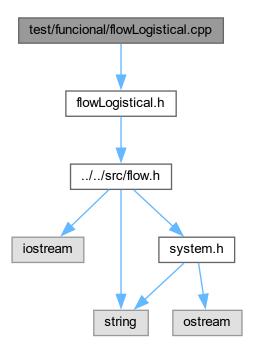
6.15 flowExponential.h

Go to the documentation of this file.

```
00001 #ifndef FLOWEXPONENTIAL_H 00002 #define FLOWEXPONENTIAL_H
00004 #include "../../src/flow.h"
00005
00006 class FlowExponential : public Flow {
00007
         public:
               FlowExponential();
FlowExponential(Flow &obj);
FlowExponential(const string name, System *source, System *target);
80000
00009
00010
00011
                 virtual ~FlowExponential();
00012
                 virtual float execute();
00013
00014 };
00015
00016 #endif
```

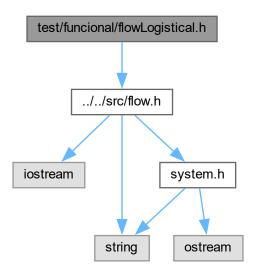
6.16 test/funcional/flowLogistical.cpp File Reference

```
#include "flowLogistical.h"
Include dependency graph for flowLogistical.cpp:
```

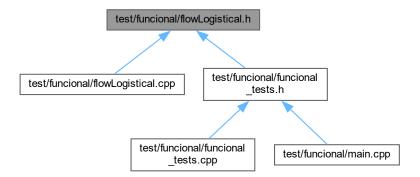


6.17 test/funcional/flowLogistical.h File Reference

#include "../../src/flow.h"
Include dependency graph for flowLogistical.h:



This graph shows which files directly or indirectly include this file:



Classes

· class FlowLogistical

Macros

• #define FLOWLOGISTIC_H

6.17.1 Macro Definition Documentation

6.17.1.1 FLOWLOGISTIC_H

```
#define FLOWLOGISTIC_H
```

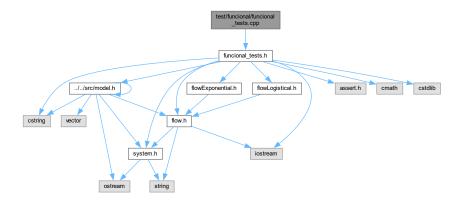
6.18 flowLogistical.h

Go to the documentation of this file.

```
00001 #ifndef FLOWLOGISTICAL_H
00002 #define FLOWLOGISTIC_H
00003
00004 #include "../../src/flow.h"
00005
00006 class FlowLogistical : public Flow {
00007 public:
80000
         FlowLogistical();
00009
         FlowLogistical(Flow &obj);
00010
         FlowLogistical(const string name, System *source, System *target);
00011
         virtual ~FlowLogistical();
00012
         virtual float execute();
00014 };
00015
00016 #endif
```

6.19 test/funcional/funcional_tests.cpp File Reference

```
#include "funcional_tests.h"
Include dependency graph for funcional_tests.cpp:
```



Functions

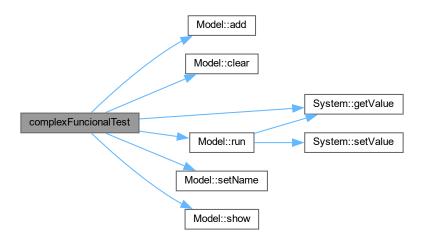
- void exponentialFuncionalTest ()
- void logisticalFuncionalTest ()
- · void complexFuncionalTest ()

6.19.1 Function Documentation

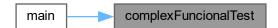
6.19.1.1 complexFuncionalTest()

```
void complexFuncionalTest ( )
```

Here is the call graph for this function:



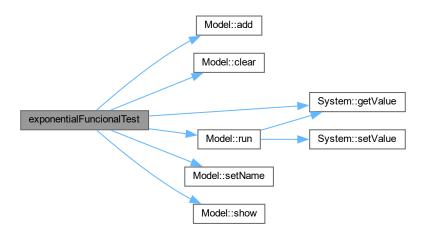
Here is the caller graph for this function:



6.19.1.2 exponentialFuncionalTest()

void exponential Funcional Test () $\,$

Here is the call graph for this function:



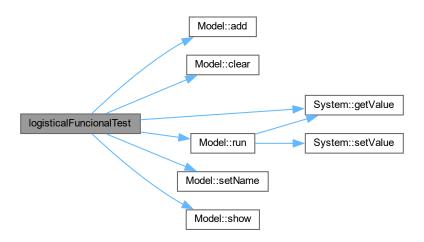
Here is the caller graph for this function:



6.19.1.3 logisticalFuncionalTest()

void logisticalFuncionalTest ()

Here is the call graph for this function:



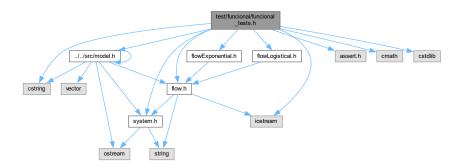
Here is the caller graph for this function:



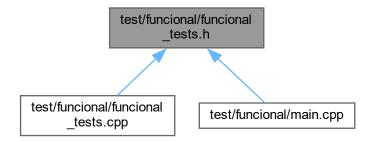
6.20 test/funcional/funcional tests.h File Reference

```
#include "../../src/model.h"
#include "../../src/system.h"
#include "../../src/flow.h"
#include "flowExponential.h"
#include "flowLogistical.h"
#include <assert.h>
#include <cmath>
#include <iostream>
#include <cstdlib>
#include <cstring>
```

Include dependency graph for funcional_tests.h:



This graph shows which files directly or indirectly include this file:



Functions

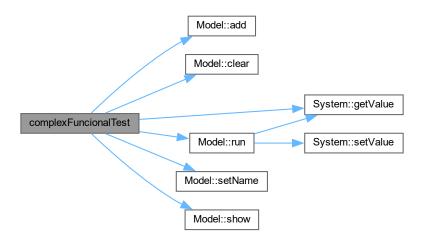
- void exponentialFuncionalTest ()
- void logisticalFuncionalTest ()
- void complexFuncionalTest ()

6.20.1 Function Documentation

6.20.1.1 complexFuncionalTest()

void complexFuncionalTest ()

Here is the call graph for this function:



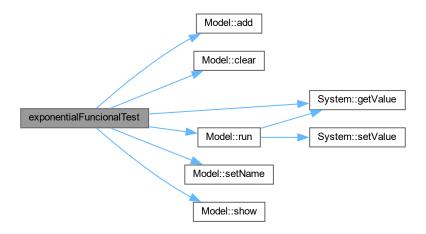
Here is the caller graph for this function:



6.20.1.2 exponentialFuncionalTest()

 $\verb"void exponentialFuncionalTest" ()\\$

Here is the call graph for this function:



Here is the caller graph for this function:

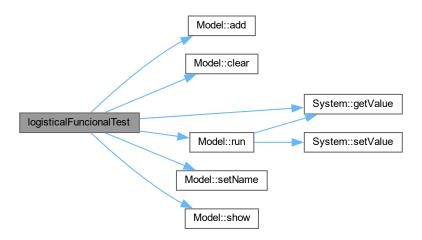


6.20.1.3 logisticalFuncionalTest()

void logisticalFuncionalTest ()

6.21 funcional_tests.h 53

Here is the call graph for this function:



Here is the caller graph for this function:



6.21 funcional_tests.h

Go to the documentation of this file.

```
Go to the documentation of this me.

00001 #include "../../src/model.h"

00002 #include "../../src/system.h"

00003 #include "../../src/flow.h"

00004 #include "flowExponential.h"

00005 #include "flowLogistical.h"

00006

00007 #include <assert.h>
00008 #include <cmath>
00009 #include <cstdlib>
00010 #include <cstdlib>
00011 #include <cstring>
00012

00013 #ifndef FUNCIONAL_TESTS

00014 #define FUNCIONAL_TESTS

00015

00016 void exponentialFuncionalTest();
00017 void logisticalFuncionalTest();
00018 void complexFuncionalTest();
00019

00020 #endif
```

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