

SIGRun

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# Chapter 1

## File Index

### 1.1 File List

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## Chapter 2

# File Documentation

### 2.1 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/debug/Print.cpp File Reference

```
#include "Print.hpp"
```

Include dependency graph for Print.cpp:



### 2.2 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/pysi/PySI.cpp File Reference

```
#include "PySIEffect.hpp"
```

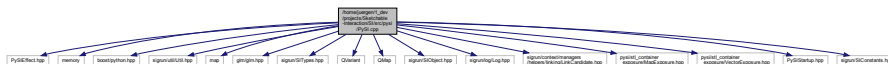
```
#include "pysi/stl_container_exposure/MapExposure.hpp"
```

```
#include "pysi/stl_container_exposure/VectorExposure.hpp"
```

```
#include "PySIStartup.hpp"
```

```
#include <sigrun/SIConstants.hpp>
```

Include dependency graph for PySI.cpp:



## Functions

- [BOOST\\_PYTHON\\_MODULE](#) (libPySI)

### 2.2.1 Function Documentation

### 2.2.1.1 BOOST\_PYTHON\_MODULE()

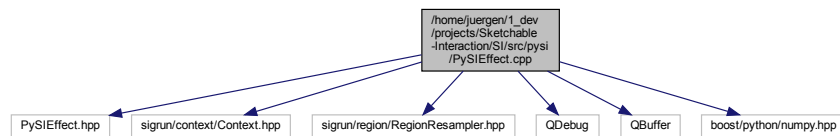
```
BOOST_PYTHON_MODULE (
    libPySI )
```

Definition at line 8 of file PySI.cpp.

## 2.3 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIEffect.cpp File Reference

```
#include "PySIEffect.hpp"
#include <sigrun/context/Context.hpp>
#include <sigrun/region/RegionResampler.hpp>
#include <QDebug>
#include <QBuffer>
#include <boost/python/numpy.hpp>
```

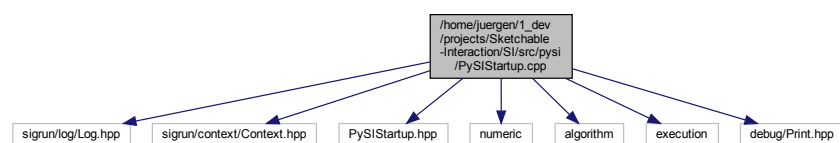
Include dependency graph for PySIEffect.cpp:



## 2.4 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIStartup.cpp File Reference

```
#include <sigrun/log/Log.hpp>
#include <sigrun/context/Context.hpp>
#include "PySIStartup.hpp"
#include <numeric>
#include <algorithm>
#include <execution>
#include <debug/Print.hpp>
```

Include dependency graph for PySIStartup.cpp:

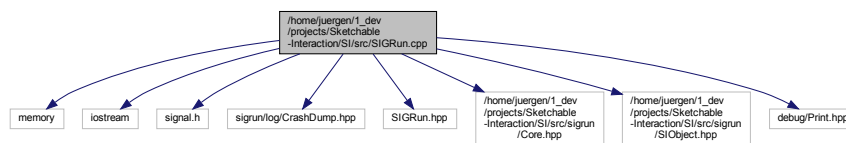




## 2.5 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/SIGRun.cpp File Reference

```
#include <memory>
#include <iostream>
#include <signal.h>
#include <sigrun/log/CrashDump.hpp>
#include "SIGRun.hpp"
#include "debug/Print.hpp"
```

Include dependency graph for SIGRun.cpp:



## 2.6 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/Context.cpp File Reference

```
#include <sigrun/log/Log.hpp>
#include "Context.hpp"
#include <QApplication>
#include <QMainWindow>
#include <pysi/PySIEffect.hpp>
#include <sigrun/util/Util.hpp>
#include <sigrun/plugin/Scripting.hpp>
#include <thread>
#include <mutex>
#include <sigrun/SITypes.hpp>
#include <csignal>
#include <cstdlib>
#include <QThread>
#include <sigrun/plugin/PythonGlobalInterpreterLockGuard.hpp>
#include <sigrun/log/CrashDump.hpp>
#include <sigrun/rendering/qml/items/PlotItem.hpp>
```

Include dependency graph for Context.cpp:



### Macros

- `#define NEW_REGIONS_PER_FRAME 100`

### 2.6.1 Macro Definition Documentation



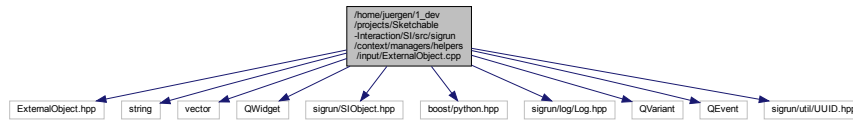
## 2.10 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/input/↔ FileSystem.cpp File

### Reference

7

```
#include <sigrun/util/UUID.hpp>
```

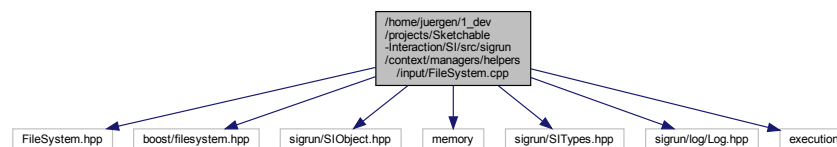
Include dependency graph for ExternalObject.cpp:



## 2.10 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/inpu FileSystem.cpp File Reference

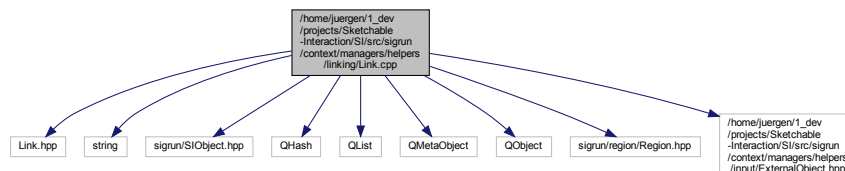
```
#include "FileSystem.hpp"  
#include <sigrun/log/Log.hpp>  
#include <execution>
```

Include dependency graph for FileSystem.cpp:



## 2.11 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/linki Link.cpp File Reference

```
#include "Link.hpp"  
Include dependency graph for Link.cpp:
```



## 2.12 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/↔ InputManager.cpp File Reference

```
#include <QKeyEvent>  
#include <QMouseEvent>
```



## 2.15 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/Core.cpp File Reference

```
#include <sigrun/log/Log.hpp>
#include <sigrun/rendering/IRenderEngine.hpp>
#include "Core.hpp"
#include "sigrun/plugin/Scripting.hpp"
#include "sigrun/plugin/PluginCollector.hpp"
#include <algorithm>
#include <execution>
```

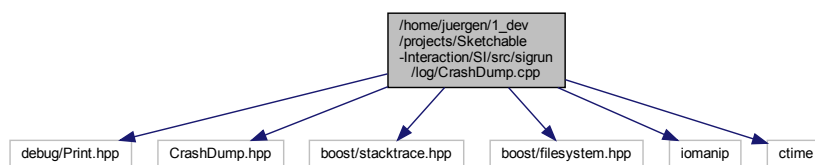
Include dependency graph for Core.cpp:



## 2.16 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/log/CrashDump.cpp File Reference

```
#include <debug/Print.hpp>
#include "CrashDump.hpp"
#include <boost/stacktrace.hpp>
#include <boost/filesystem.hpp>
#include <iomanip>
#include <ctime>
```

Include dependency graph for CrashDump.cpp:



### Macros

- #define BOOST\_STACKTRACE\_USE\_BACKTRACE
- #define NUM\_LINES\_STACKTRACE 15
- #define PARENTFOLDERPATH std::string("si\_crash\_dumps")
- #define PIPE\_DEV\_NULL std::string(">> /dev/null")
- #define DATEFORMATSTRING std::string("%d-%m-%Y-%H-%M-%S")
- #define SIGRUN\_CRASH\_CORE\_DUMP\_FILENAME std::string("sigrun\_crash\_core\_dump")
- #define SIGRUN\_CRASH\_NAME\_PREFIX std::string("sigrun\_crash\_")
- #define STACKTRACE\_NAME std::string("stacktrace")
- #define TXT\_FILE std::string("txt")
- #define GCORE\_COMMAND "gcore -a -o " + PARENTFOLDERPATH + "/" + SIGRUN\_CRASH\_NAME\_PREFIX + datetime + "/" + SIGRUN\_CRASH\_CORE\_DUMP\_FILENAME + " " + std::to\_string(getpid())

## 2.16.1 Macro Definition Documentation

### 2.16.1.1 BOOST\_STACKTRACE\_USE\_BACKTRACE

```
#define BOOST_STACKTRACE_USE_BACKTRACE
```

Definition at line 2 of file CrashDump.cpp.

### 2.16.1.2 DATEFORMATSTRING

```
#define DATEFORMATSTRING std::string("%d-%m-%Y--%H-%M-%S")
```

Definition at line 15 of file CrashDump.cpp.

### 2.16.1.3 GCORE\_COMMAND

```
#define GCORE_COMMAND "gcore -a -o " + PARENTFOLDERPATH + "/" + SIGRUN_CRASH_NAME_PREFIX +  
datetime + "/" + SIGRUN_CRASH_CORE_DUMP_FILENAME + " " + std::to_string(getpid())
```

Definition at line 21 of file CrashDump.cpp.

### 2.16.1.4 NUM\_LINES\_STACKTRACE

```
#define NUM_LINES_STACKTRACE 15
```

Definition at line 11 of file CrashDump.cpp.

### 2.16.1.5 PARENTFOLDERPATH

```
#define PARENTFOLDERPATH std::string("si_crash_dumps")
```

Definition at line 13 of file CrashDump.cpp.

## **2.16 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/log/CrashDump.cpp File Reference**

---

### **2.16.1.6 PIPE\_DEV\_NULL**

```
#define PIPE_DEV_NULL std::string(" >> /dev/null")
```

Definition at line 14 of file CrashDump.cpp.

### **2.16.1.7 SIGRUN\_CRASH\_CORE\_DUMP\_FILENAME**

```
#define SIGRUN_CRASH_CORE_DUMP_FILENAME std::string("sigrun_crash_core_dump")
```

Definition at line 16 of file CrashDump.cpp.

### **2.16.1.8 SIGRUN\_CRASH\_NAME\_PREFIX**

```
#define SIGRUN_CRASH_NAME_PREFIX std::string("sigrun_crash_")
```

Definition at line 17 of file CrashDump.cpp.

### **2.16.1.9 STACKTRACE\_NAME**

```
#define STACKTRACE_NAME std::string("stacktrace")
```

Definition at line 18 of file CrashDump.cpp.

### **2.16.1.10 TXT\_FILE**

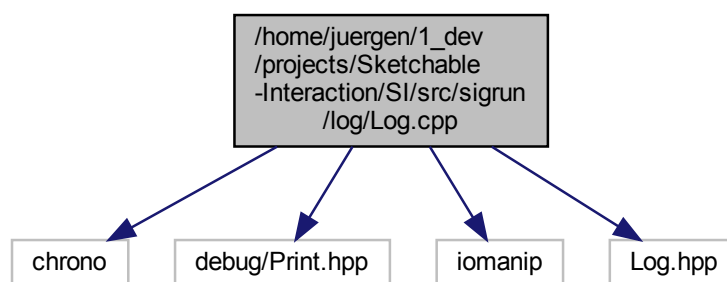
```
#define TXT_FILE std::string("txt")
```

Definition at line 19 of file CrashDump.cpp.

## 2.17 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/log/Log.cpp File Reference

```
#include <chrono>
#include <debug/Print.hpp>
#include <iomanip>
#include "Log.hpp"
```

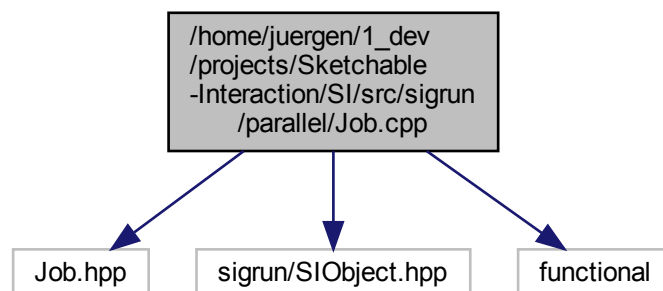
Include dependency graph for Log.cpp:



## 2.18 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/parallel/Job.cpp File Reference

```
#include "Job.hpp"
```

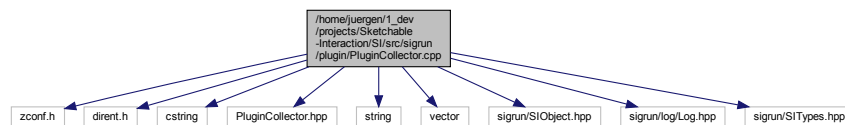
Include dependency graph for Job.cpp:





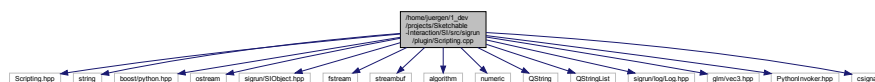
## 2.19 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/plugin/PluginCollector.cpp File Reference

```
#include <zconf.h>
#include <dirent.h>
#include <cstring>
#include "PluginCollector.hpp"
#include "sigrun/log/Log.hpp"
#include <sigrun/SITypes.hpp>
Include dependency graph for PluginCollector.cpp:
```



## 2.20 /home/juergen/1\_dev/projects/Sketchable-Interaction/SI/src/sigrun/plugin/Scripting.cpp File Reference

```
#include "Scripting.hpp"
#include <fstream>
#include <streambuf>
#include <algorithm>
#include <numeric>
#include <QString>
#include <QStringList>
#include <sigrun/log/Log.hpp>
#include <glm/vec3.hpp>
#include "PythonInvoker.hpp"
Include dependency graph for Scripting.cpp:
```



### Functions

- `std::ostream & operator<< (std::ostream &os, const Scripting &scripting)`

### 2.20.1 Function Documentation

### 2.20.1.1 operator<<()

```
std::ostream& operator<< (
    std::ostream & os,
    const Scripting & scripting )
```

Definition at line 99 of file Scripting.cpp.

## 2.21 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/Region.cpp File Reference

```
#include "sigrun/plugin/PythonInvoker.hpp"
#include "sigrun/plugin/PythonGlobalInterpreterLockGuard.hpp"
#include "Region.hpp"
#include "RegionResampler.hpp"
#include <sigrun/log/Log.hpp>
#include <sigrun/util/UUID.hpp>
#include <sigrun/context/Context.hpp>
```

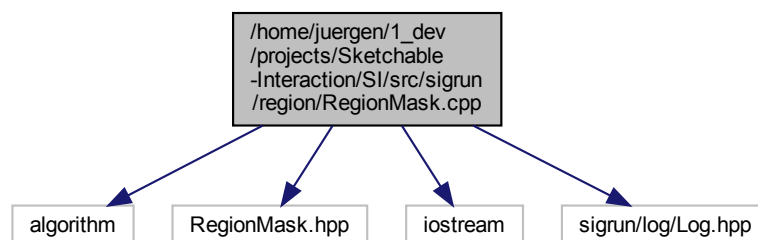
Include dependency graph for Region.cpp:



## 2.22 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionMask.cpp File Reference

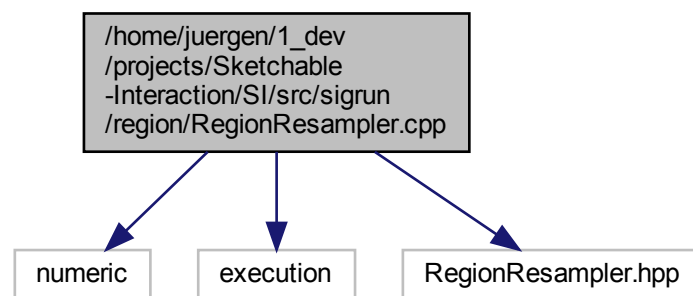
```
#include <algorithm>
#include "RegionMask.hpp"
#include <iostream>
#include <sigrun/log/Log.hpp>
```

Include dependency graph for RegionMask.cpp:



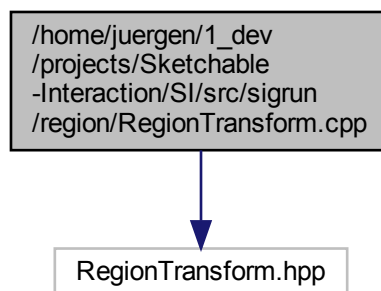
## 2.23 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionResampler.cpp File Reference

```
#include <numeric>
#include <execution>
#include "RegionResampler.hpp"
Include dependency graph for RegionResampler.cpp:
```



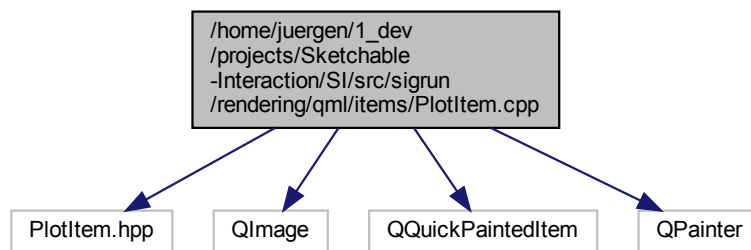
## 2.24 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionTransform.cpp File Reference

```
#include "RegionTransform.hpp"
Include dependency graph for RegionTransform.cpp:
```



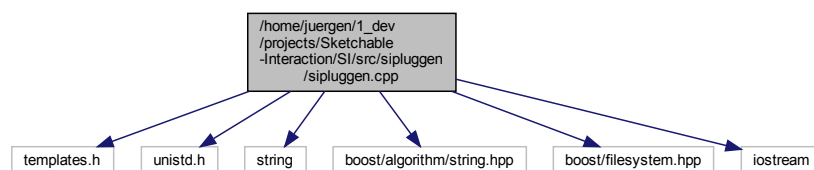
## 2.25 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/rendering/qml/items/PlotItem.cpp` File Reference

```
#include "PlotItem.hpp"
#include <QPainter>
Include dependency graph for PlotItem.cpp:
```



## 2.26 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sipluggen/sipluggen.cpp` File Reference

```
#include "templates.h"
#include <boost/filesystem.hpp>
#include <iostream>
Include dependency graph for sipluggen.cpp:
```



### Functions

- `int main (int argc, char **argv)`

#### 2.26.1 Function Documentation

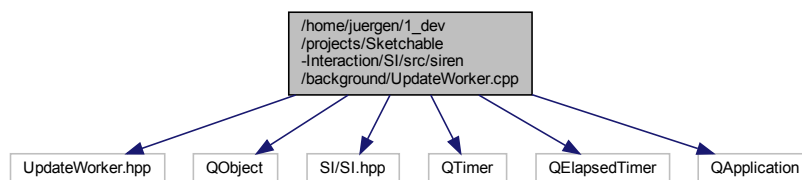
### 2.26.1.1 main()

```
int main (
    int argc,
    char ** argv )
```

Definition at line 8 of file sipluggen.cpp.

## 2.27 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/siren/background/UpdateWorker.cpp File Reference ↔

```
#include "UpdateWorker.hpp"
#include <QApplication>
Include dependency graph for UpdateWorker.cpp:
```



## 2.28 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/siren/region/RegionRepresentation.cpp File Reference ↔

```
#include "RegionRepresentation.hpp"
#include <QLayout>
#include <algorithm>
#include <thread>
#include <QQtContext>
#include <QQtModelProperty>
Include dependency graph for RegionRepresentation.cpp:
```

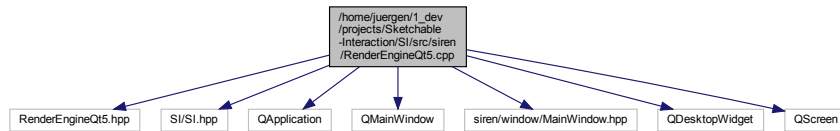


## 2.29 /home/juergen/1\_dev/projects/Sketchable-Interaction/Sl/src/siren/RenderEngineQt5.cpp File Reference ↔

```
#include "RenderEngineQt5.hpp"
#include <QDesktopWidget>
```

```
#include <QScreen>
```

Include dependency graph for RenderEngineQt5.cpp:



## 2.30 `/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/window/MainWindow.cpp` File Reference

```
#include "MainWindow.hpp"
```

```
#include <QPaintEvent>
```

```
#include <QDebug>
```

Include dependency graph for MainWindow.cpp:



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