SIGRun

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Chapter 1

File Index

1.1 File List

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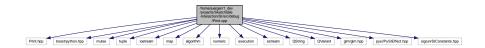
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Chapter 2

File Documentation

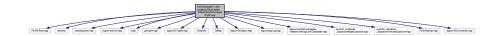
2.1 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/debug/Print.cpp File Reference

#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

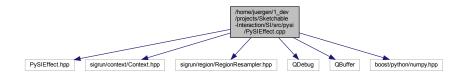
2.2.1.1 BOOST_PYTHON_MODULE()

```
BOOST_PYTHON_MODULE ( libPySI )
```

Definition at line 8 of file PySI.cpp.

2.3 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/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/SI/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/SI/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/SI/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 <csiqnal>
#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

2.6.1.1 NEW_REGIONS_PER_FRAME

#define NEW_REGIONS_PER_FRAME 100

Definition at line 23 of file Context.cpp.

2.7 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/
CollisionManager.cpp File Reference

```
#include "CollisionManager.hpp"
#include <sigrun/context/Context.hpp>
#include <execution>
Include dependency graph for CollisionManager.cpp:
```

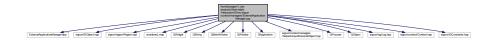


2.8 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/

ExternalApplicationManager.cpp File Reference

```
#include "ExternalApplicationManager.hpp"
#include <QProcess>
#include <QObject>
#include <sigrun/log/Log.hpp>
#include <sigrun/context/Context.hpp>
#include <sigrun/SIConstants.hpp>
```

Include dependency graph for ExternalApplicationManager.cpp:



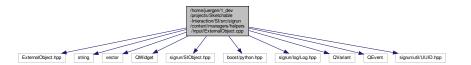
2.9 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/input/ ExternalObject.cpp File Reference

```
#include "ExternalObject.hpp"
#include <sigrun/log/Log.hpp>
#include <QVariant>
#include <QEvent>
```

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>

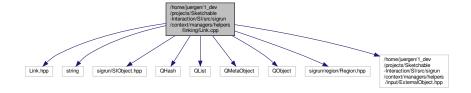
#include <execution>

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:

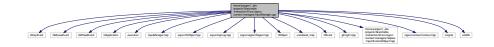


2.12 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/ InputManager.cpp File Reference

#include <QKeyEvent>
#include <QMouseEvent>

```
#include <QWheelEvent>
#include <QApplication>
#include <execution>
#include "InputManager.hpp"
#include <sigrun/context/Context.hpp>
#include <csignal>
#include <cstdlib>
#include dependency graph for InputManager.epp;
```

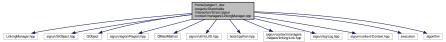
Include dependency graph for InputManager.cpp:



2.13 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/← LinkingManager.cpp File Reference

```
#include "LinkingManager.hpp"
#include <sigrun/log/Log.hpp>
#include <sigrun/context/Context.hpp>
#include <execution>
#include <algorithm>
Include dependency graph for LinkingManager.cpp:
```

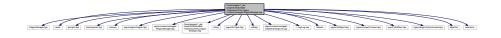
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2.14 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/ RegionManager.cpp File Reference

```
#include "RegionManager.hpp"
#include "../../log/Log.hpp"
#include <sigrun/context/Context.hpp>
#include <pysi/PySIEffect.hpp>
#include <sigrun/plugin/PythonInvoker.hpp>
#include <algorithm>
#include <execution>
```

Include dependency graph for RegionManager.cpp:

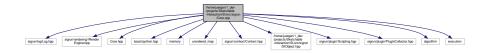


2.15 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/Core.cpp File Reference

```
#include <sigrun/log/Log.hpp>
#include <sigrun/rendering/IRenderEngine.hpp>
#include "Core.hpp"

#include "sigrun/plugin/Scripting.hpp"
#include "sigrun/plugin/PluginCollector.hpp"

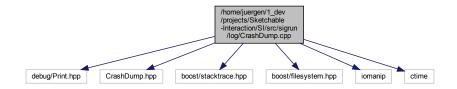
#include <algorithm>
#include <execution>
Include dependency graph for Core.cpp:
```



2.16 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/log/Crash Dump.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

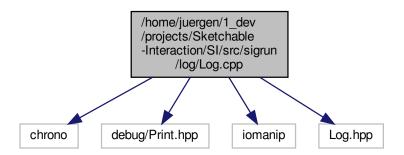
#define PARENTFOLDERPATH std::string("si_crash_dumps")

Definition at line 13 of file CrashDump.cpp.

2.16.1.6 PIPE_DEV_NULL
<pre>#define PIPE_DEV_NULL std::string(" >> /dev/null")</pre>
Definition at line 14 of file CrashDump.cpp.
2.16.1.7 SIGRUN_CRASH_CORE_DUMP_FILENAME
<pre>#define SIGRUN_CRASH_CORE_DUMP_FILENAME std::string("sigrun_crash_core_dump")</pre>
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
2.10.1.5 GIAGKITIAGE_NAME
<pre>#define STACKTRACE_NAME std::string("stacktrace")</pre>
Definition at line 18 of file CrashDump.cpp.
2.16.1.10 TXT_FILE
<pre>#define TXT_FILE std::string("txt")</pre>
Definition at line 19 of file CrashDump.cpp.

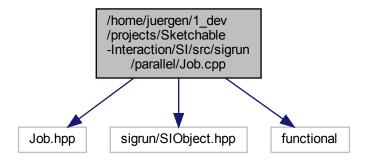
2.17 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/log/Log.cpp File Reference

```
#include <chrono>
#include <debug/Print.hpp>
#include <iomanip>
#include "Log.hpp"
Include dependency graph for Log.cpp:
```



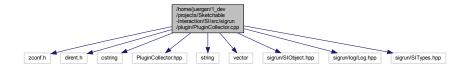
2.18 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/parallel/Job.cpp File Reference

#include "Job.hpp"
Include dependency graph for Job.cpp:



2.19 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/plugin/Plugin Collector.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/Sl/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 <<()

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

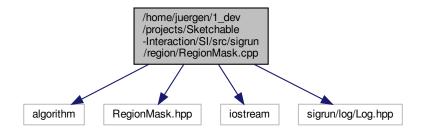
```
#include "sigrun/plugin/PythonInvoker.hpp"
#include "sigrun/plugin/PythonGlobalInterpreterLockGuard.hpp"
#include "Region.hpp"
#include "RegionResampler.hpp"
#include <sigrun/log/Log.hpp>
#include <sigrun/util/UUID.hpp>
#include <sigrun/context/Context.hpp>
```

Include dependency graph for Region.cpp:



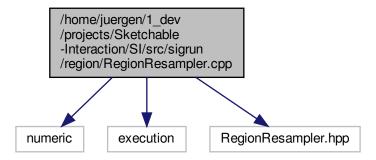
2.22 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/Region ← Mask.cpp File Reference

```
#include <algorithm>
#include "RegionMask.hpp"
#include <iostream>
#include <sigrun/log/Log.hpp>
Include dependency graph for RegionMask.cpp:
```



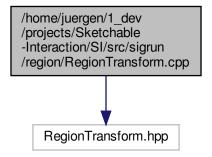
2.23 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/Region⊸ Resampler.cpp File Reference

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



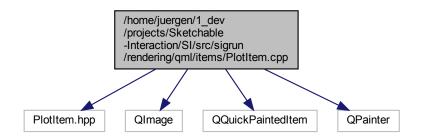
2.24 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/Region ← Transform.cpp File Reference

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



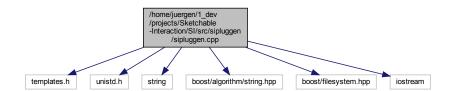
2.25 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/rendering/qml/items/← PlotItem.cpp File Reference

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



2.26 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/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

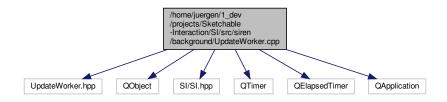
2.26.1.1 main()

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

Definition at line 8 of file sipluggen.cpp.

2.27 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/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/SI/src/siren/region/Region ← Representation.cpp File Reference

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



2.29 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/RenderEngine Qt5.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/Main Window.cpp File Reference

#include "MainWindow.hpp"
#include <QPaintEvent>
#include <QDebug>

Include dependency graph for MainWindow.cpp:



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