SIGRun

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Chapter 1

File Index

1.1 File List

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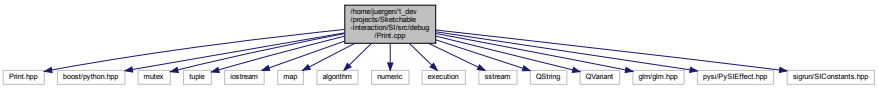
Chapter 2

File Documentation

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

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

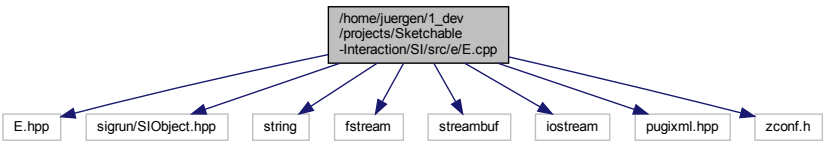
Include dependency graph for Print.cpp:



2.2 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/e/E.cpp File Reference

```
#include "E.hpp"
#include <string>
#include <fstream>
#include <streambuf>
#include <iostream>
#include <pugixml.hpp>
#include <zconf.h>
```

Include dependency graph for E.cpp:



Functions

- int main ()

2.2.1 Function Documentation

2.2.1.1 main()

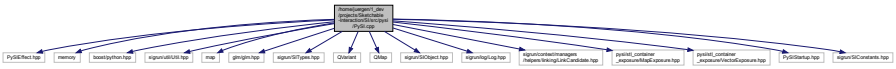
```
int main ( )
```

Definition at line 63 of file E.cpp.

2.3 /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)

2.3.1 Function Documentation

2.3.1.1 BOOST_PYTHON_MODULE()

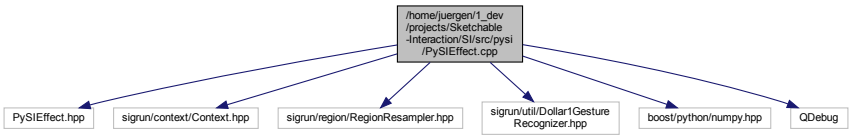
```
BOOST_PYTHON_MODULE (
              libPySI  )
```

Definition at line 8 of file PySI.cpp.

2.4 /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 <sigrun/util/Dollar1GestureRecognizer.hpp>
#include <boost/python/numpy.hpp>
#include <QDebug>
```

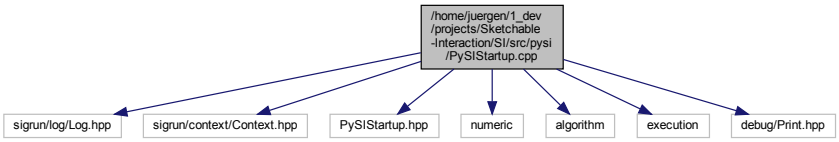
Include dependency graph for PySIEffect.cpp:



2.5 /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:

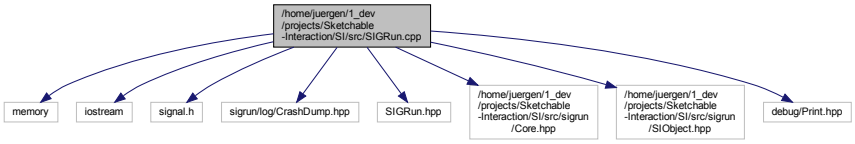


2.6 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/SIGRun.cpp File Reference

```
#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:



2.7 /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/SITypes.hpp>
#include <csignal>
#include <cstdlib>
#include <QThread>
#include <QScreen>
#include <sigrun/plugin/PythonGlobalInterpreterLockGuard.hpp>
#include <sigrun/log/CrashDump.hpp>
#include <sigrun/rendering/qml/items/PlotItem.hpp>
#include <sigrun/util/Benchmark.hpp>
#include <chrono>
#include <sigrun/tangible/TangibleListener.hpp>
#include "../lib/tuio_headers/oscpack/ip/UdpSocket.h"
```

Include dependency graph for Context.cpp:

Macros

- #define NEW_REGIONS_PER_FRAME 50

2.7.1 Macro Definition Documentation

2.7.1.1 NEW_REGIONS_PER_FRAME

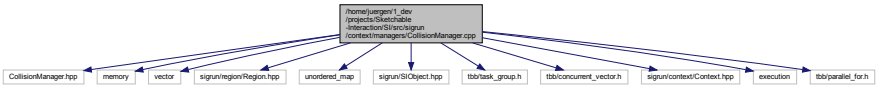
```
#define NEW_REGIONS_PER_FRAME 50
```

Definition at line 25 of file Context.cpp.

2.8 /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 <tbb/parallel_for.h>
```

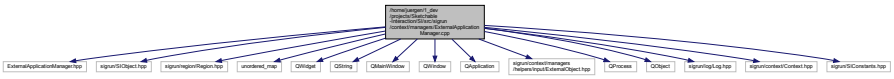
Include dependency graph for CollisionManager.cpp:



2.9 /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>
```

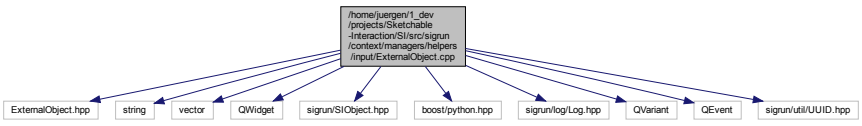
Include dependency graph for ExternalApplicationManager.cpp:



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

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

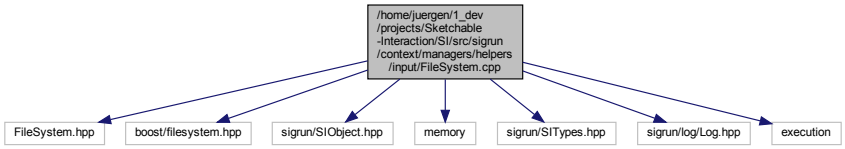
Include dependency graph for ExternalObject.cpp:



2.11 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/input/FileSystem.cpp File Reference

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

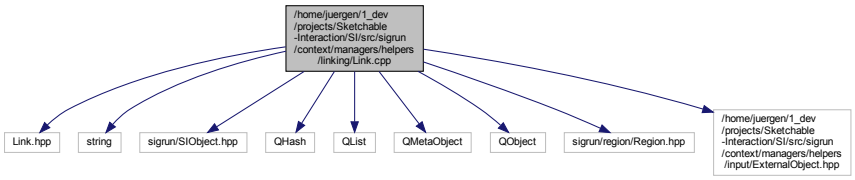
Include dependency graph for FileSystem.cpp:



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

```
#include "Link.hpp"
```

Include dependency graph for Link.cpp:



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

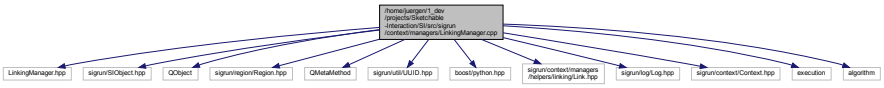
```
#include <QKeyEvent>
#include <QMouseEvent>
#include <QWheelEvent>
#include <QApplication>
#include <execution>
#include "InputManager.hpp"
#include <sigrun/context/Context.hpp>
#include <csignal>
#include <cstdlib>
```

Include dependency graph for InputManager.cpp:

2.14 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/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:



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

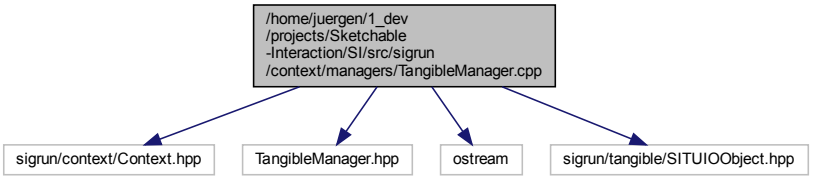
```
#include "RegionManager.hpp"
#include "../../log/Log.hpp"
#include <sigrun/context/Context.hpp>
#include <pysi/PySIEffect.hpp>
#include <sigrun/plugin/PythonInvoker.hpp>
#include <algorithm>
#include <execution>
```

Include dependency graph for RegionManager.cpp:

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

```
#include <sigrun/context/Context.hpp>
#include "TangibleManager.hpp"
```

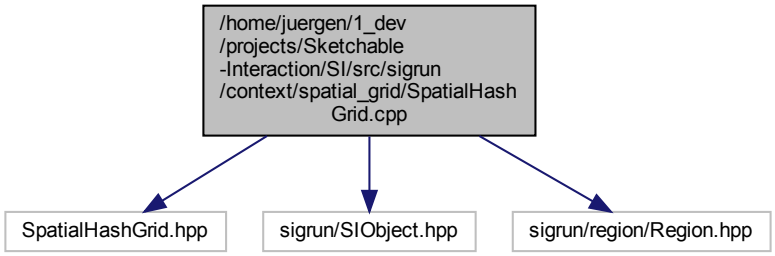
Include dependency graph for TangibleManager.cpp:



2.17 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/spatial_grid/SpatialHashGrid.cpp File Reference

```
#include "SpatialHashGrid.hpp"
```

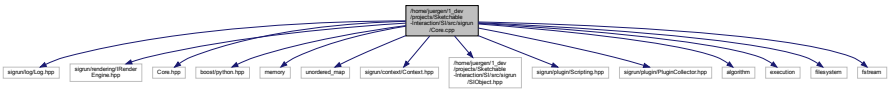
Include dependency graph for SpatialHashGrid.cpp:



2.18 /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/PluginCollector.hpp"
#include <algorithm>
#include <execution>
#include <filesystem>
#include <fstream>
```

Include dependency graph for Core.cpp:

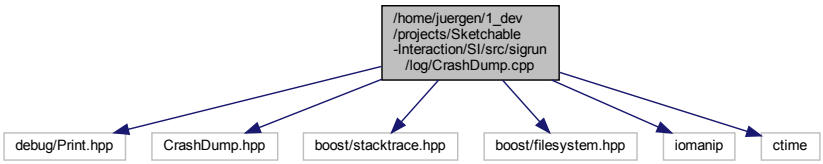


2.19 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/log/CrashDump.cpp File Reference

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

2.19.1 Macro Definition Documentation

2.19.1.1 BOOST_STACKTRACE_USE_BACKTRACE

```
#define BOOST_STACKTRACE_USE_BACKTRACE
```

Definition at line 2 of file CrashDump.cpp.

2.19.1.2 DATEFORMATSTRING

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

Definition at line 15 of file CrashDump.cpp.

2.19.1.3 GCORE_COMMAND

```
#define GCORE_COMMAND "sudo 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.

2.19.1.4 NUM_LINES_STACKTRACE

```
#define NUM_LINES_STACKTRACE 15
```

Definition at line 11 of file CrashDump.cpp.

2.19.1.5 PARENTFOLDERPATH

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

Definition at line 13 of file CrashDump.cpp.

2.19.1.6 PIPE_DEV_NULL

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

Definition at line 14 of file CrashDump.cpp.

2.19.1.7 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.

2.19.1.8 SIGRUN_CRASH_NAME_PREFIX

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

Definition at line 17 of file CrashDump.cpp.

2.19.1.9 STACKTRACE_NAME

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

Definition at line 18 of file CrashDump.cpp.

2.19.1.10 TXT_FILE

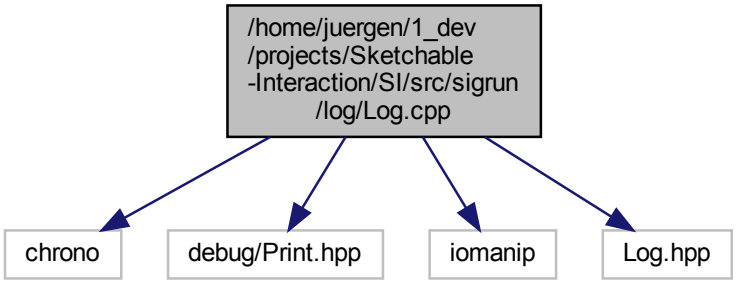
```
#define TXT_FILE std::string("txt")
```

Definition at line 19 of file CrashDump.cpp.

2.20 /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"
```

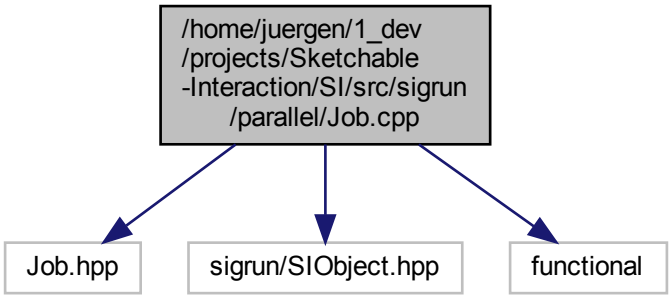
Include dependency graph for Log.cpp:



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

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

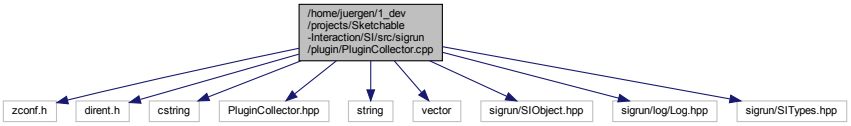
Include dependency graph for Job.cpp:



2.22 /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>
```

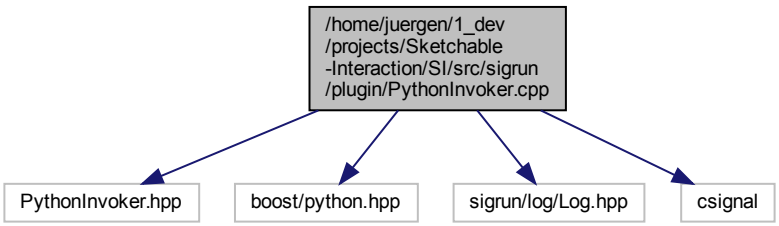
Include dependency graph for PluginCollector.cpp:



2.23 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/plugin/PythonInvoker.cpp File Reference

```
#include "PythonInvoker.hpp"
```

Include dependency graph for PythonInvoker.cpp:



Functions

- bool __si_evaluate_syntax_error__ (const std::string &error, const std::string &to_search)

2.23.1 Function Documentation

2.23.1.1 __si_evaluate_syntax_error__()

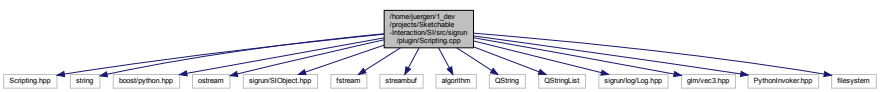
```
bool __si_evaluate_syntax_error__ (
            const std::string & error,
            const std::string & to_search )
```

Definition at line 4 of file PythonInvoker.cpp.

2.24 /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 <QString>
#include <QStringList>
#include <sigrun/log/Log.hpp>
#include <glm/vec3.hpp>
#include "PythonInvoker.hpp"
#include <filesystem>
```

Include dependency graph for Scripting.cpp:



Functions

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

2.24.1 Function Documentation

2.24.1.1 operator<<()

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

Definition at line 284 of file Scripting.cpp.

2.25 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/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 <execution>
#include <QDebug>
```

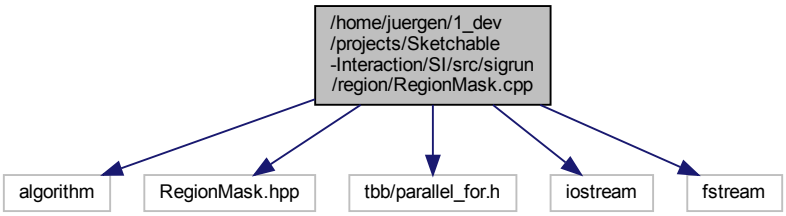
Include dependency graph for Region.cpp:

2.26 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/RegionMask.cpp File Reference

```
#include <algorithm>
#include "RegionMask.hpp"
#include <tbb/parallel_for.h>
#include <iostream>
```

```
#include <fstream>
```

Include dependency graph for RegionMask.cpp:



Macros

- #define NUM_DEFAULT_SCANLINES 24
- #define MASK_DEBUG

2.26.1 Macro Definition Documentation

2.26.1.1 MASK_DEBUG

```
#define MASK_DEBUG
```

Value:

```
++d_num_called; \
if(d_num_called > NUM_DEFAULT_SCANLINES) \
{ \
    std::ofstream f; \
    f.open("build/test" + std::to_string(d_num_called) + ".txt"); \
    for (int i = 0; i < d_canvas_height; ++i) \
    { \
        for (int k = 0; k < d_canvas_width; ++k) \
            f « (int) d_values[d_canvas_width * i + k]; \
        f « "\n"; \
    } \
    f.close();\
}
```

Definition at line 14 of file RegionMask.cpp.

2.26.1.2 NUM_DEFAULT_SCANLINES

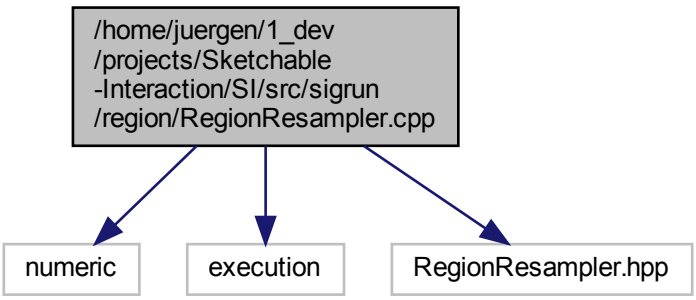
```
#define NUM_DEFAULT_SCANLINES 24
```

Definition at line 12 of file RegionMask.cpp.

2.27 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/RegionResampler.cpp File Reference

```
#include <numeric>
#include <execution>
#include "RegionResampler.hpp"
```

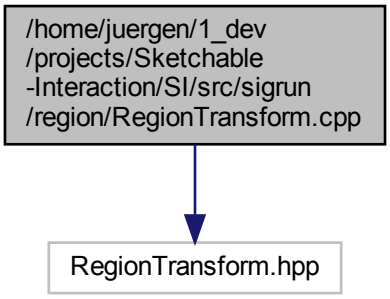
Include dependency graph for RegionResampler.cpp:



2.28 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/RegionTransform.cpp File Reference

```
#include "RegionTransform.hpp"
```

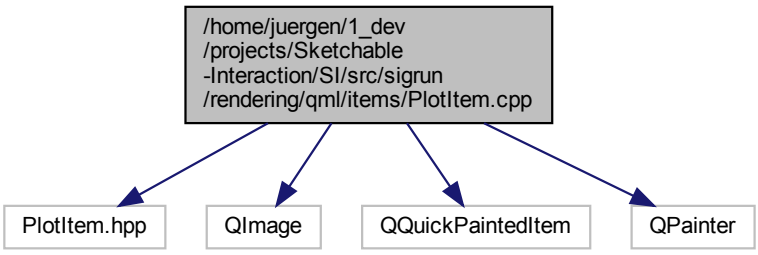
Include dependency graph for RegionTransform.cpp:



2.29 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/rendering/qml/items/PlotItem.cpp File Reference

```
#include "PlotItem.hpp"
#include <QPainter>
```

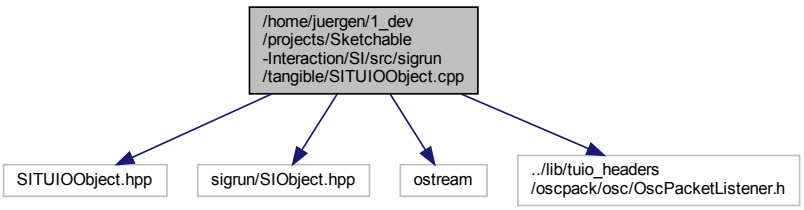
Include dependency graph for PlotItem.cpp:



2.30 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/tangible/SITUIOObject.cpp File Reference

```
#include "SITUIOObject.hpp"
```

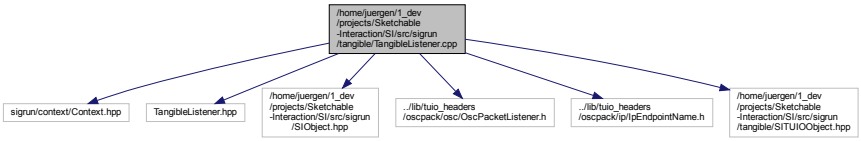
Include dependency graph for SITUIOObject.cpp:



2.31 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/tangible/TangibleListener.cpp File Reference

```
#include <sigrun/context/Context.hpp>
#include "TangibleListener.hpp"
```

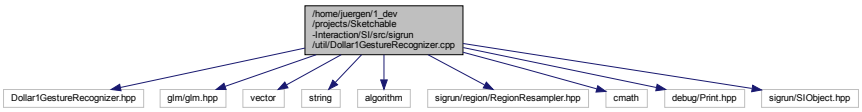
Include dependency graph for TangibleListener.cpp:



2.32 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/util/Dollar1GestureRecognizer.cpp File Reference

```
#include "Dollar1GestureRecognizer.hpp"
```

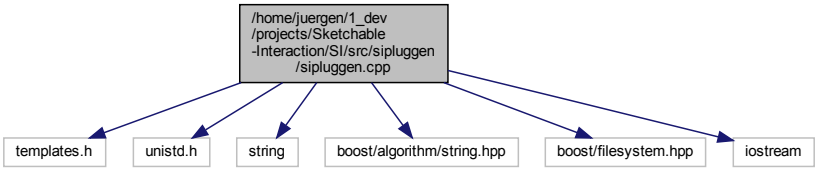
Include dependency graph for Dollar1GestureRecognizer.cpp:



2.33 /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)

2.33.1 Function Documentation

2.33.1.1 main()

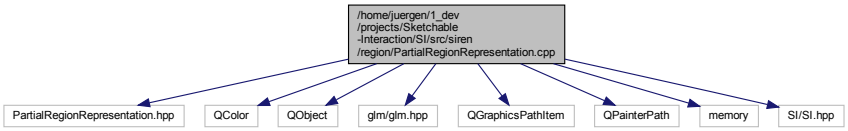
```
int main (
             int argc,
             char ** argv )
```

Definition at line 10 of file sipluggen.cpp.

2.34 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/region/PartialRegionRepresentation.cpp File Reference

```
#include "PartialRegionRepresentation.hpp"
```

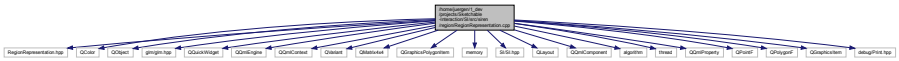
Include dependency graph for PartialRegionRepresentation.cpp:



2.35 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/region/RegionRepresentation.cpp File Reference

```
#include "RegionRepresentation.hpp"
#include <QLayout>
#include <QQmlComponent>
#include <algorithm>
#include <thread>
#include <QQmlProperty>
#include <QPointF>
#include <QPolygonF>
#include <QGraphicsItem>
#include <debug/Print.hpp>
```

Include dependency graph for RegionRepresentation.cpp:



2.36 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/RenderEngineQt5.cpp File Reference

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

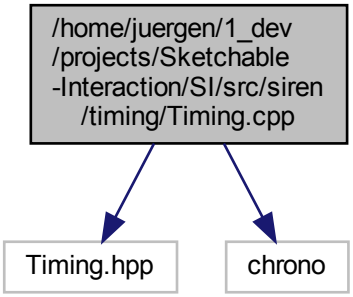
```
#include <QScreen>
```

Include dependency graph for RenderEngineQt5.cpp:

2.37 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/timing/Timing.cpp File Reference

```
#include "Timing.hpp"
```

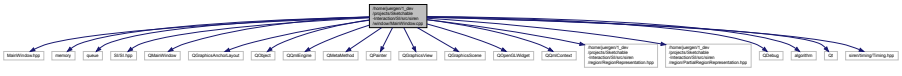
Include dependency graph for Timing.cpp:



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

```
#include "MainWindow.hpp"
#include <QDebug>
#include <algorithm>
#include <Qt>
#include <siren/timing/Timing.hpp>
```

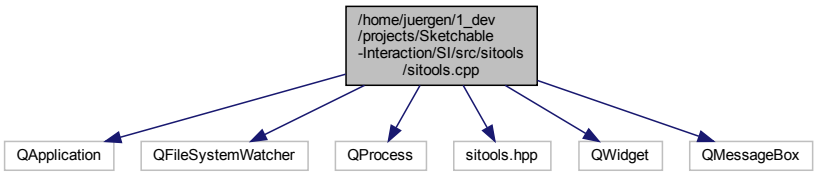
Include dependency graph for MainWindow.cpp:



2.39 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sitools/sitools.cpp File Reference

```
#include <QApplication>
#include <QFileSystemWatcher>
#include <QProcess>
#include "sitools.hpp"
```

Include dependency graph for sitools.cpp:



Functions

- int main (int argc, char ∗argv[ ])

2.39.1 Function Documentation

2.39.1.1 main()

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

Definition at line 12 of file sitools.cpp.

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