

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/Sl/src/debug/Print.cpp File Reference

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

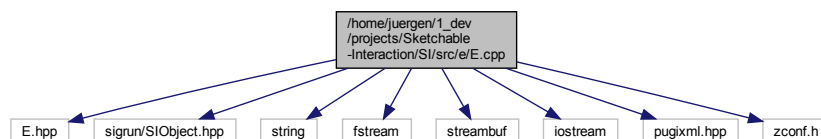
Include dependency graph for Print.cpp:



2.2 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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()

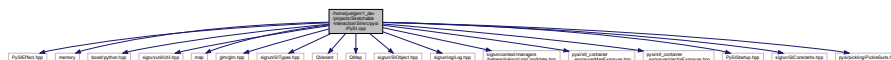
```
int main ( )
```

Definition at line 63 of file E.cpp.

2.3 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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 <pysi/pickling/PickleSuits.hpp>
```

Include dependency graph for PySI.cpp:



Functions

- [BOOST_PYTHON_MODULE](#) (libPySI)

2.3.1 Function Documentation

2.3.1.1 BOOST_PYTHON_MODULE()

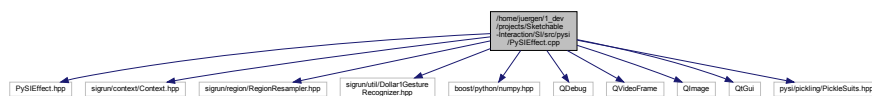
```
BOOST_PYTHON_MODULE (
    libPySI )
```

Definition at line 9 of file PySI.cpp.

2.4 /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 <sigrun/util/Dollar1GestureRecognizer.hpp>
#include <boost/python/numpy.hpp>
#include <QDebug>
#include <QVideoFrame>
#include <QImage>
#include <QtGui>
#include <pysi/pickling/PickleSuits.hpp>
```

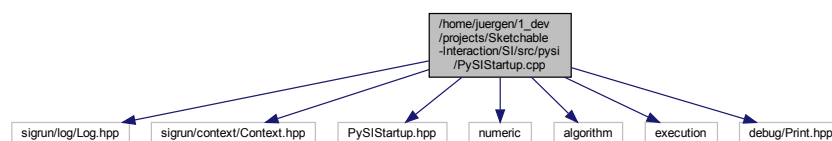
Include dependency graph for PySIEffect.cpp:



2.5 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySISStartup.cpp File Reference

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

Include dependency graph for PySISStartup.cpp:



2.6 /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"
```


2.8 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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:
```



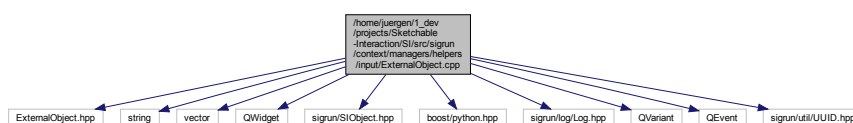
2.9 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/ExternalApplicationManager.cpp File Reference ↩

```
#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/Sl/src/sigrun/context/managers/helpers/input/ExternalObject.cpp File Reference

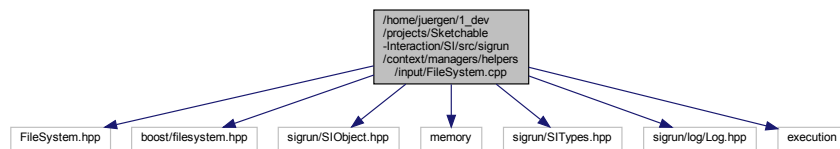
```
#include "ExternalObject.hpp"
#include <sigrun/log/Log.hpp>
#include <QVariant>
#include <QEvent>
#include <sigrun/util/UUID.hpp>
Include dependency graph for ExternalObject.cpp:
```



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

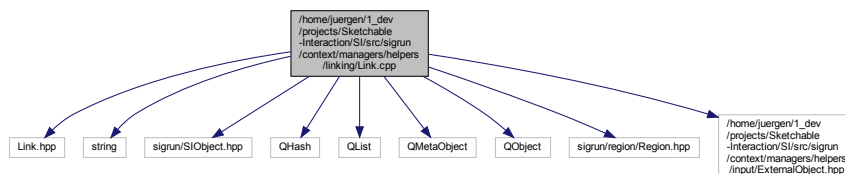
```
#include "FileSystem.hpp"
#include <sigrun/log/Log.hpp>
#include <execution>
```

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/input/Manager.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/Sl/src/sigrun/context/managers/LinkingManager.cpp

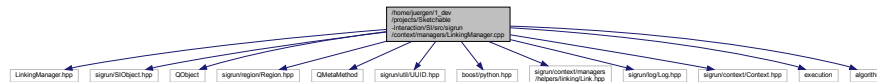
File Reference

2.14 /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:

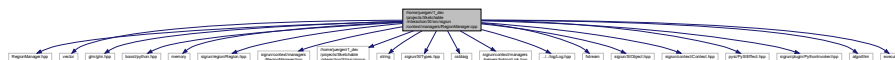


2.15 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/↩

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:

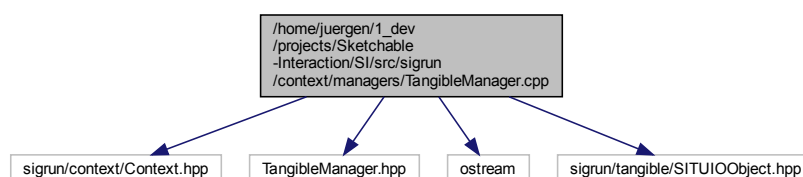


2.16 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/↩

TangibleManager.cpp File Reference

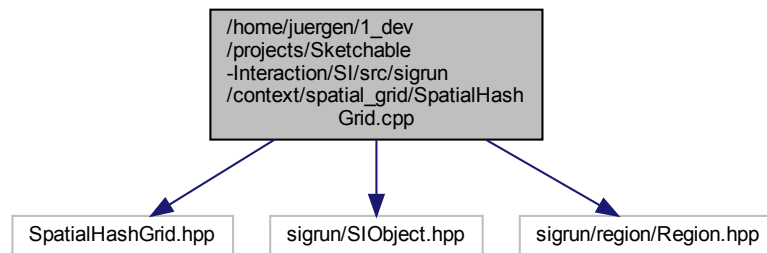
```
#include <sigrun/context/Context.hpp>
#include "TangibleManager.hpp"
```

Include dependency graph for TangibleManager.cpp:



2.17 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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/Sl/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:
```



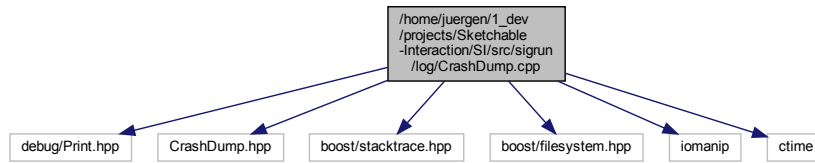
2.19 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/log/CrashDump.cpp` File Reference ↩

```
#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 "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

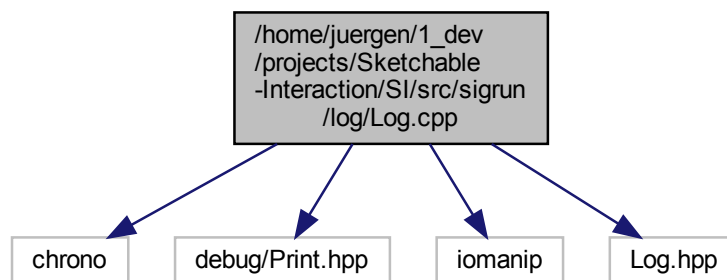
```
#define TXT_FILE std::string("txt")
```

Definition at line 19 of file CrashDump.cpp.

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

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

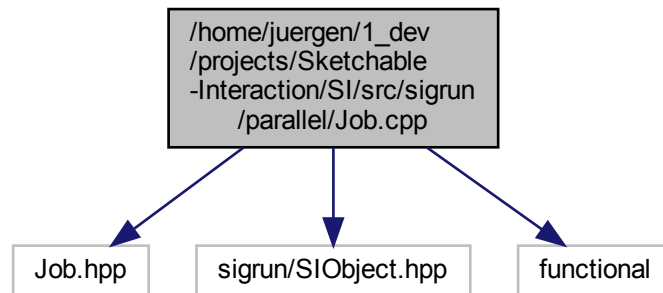
Include dependency graph for Log.cpp:



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

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

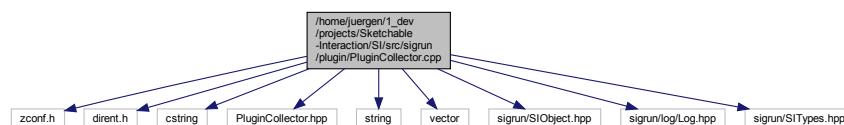
Include dependency graph for Job.cpp:



2.22 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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>
```

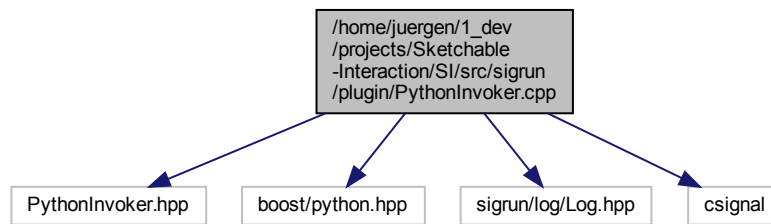
Include dependency graph for PluginCollector.cpp:



2.23 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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<<()`

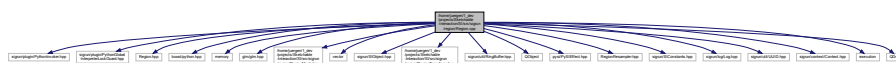
```
std::ostream& operator<< (
    std::ostream & os,
    const Scripting & scripting )
```

Definition at line 292 of file `Scripting.cpp`.

2.25 `/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 <execution>
#include <QDebug>
```

Include dependency graph for `Region.cpp`:

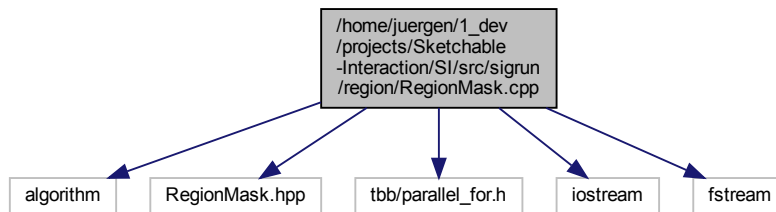


2.26 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionMask.cpp` File Reference

```
#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`.

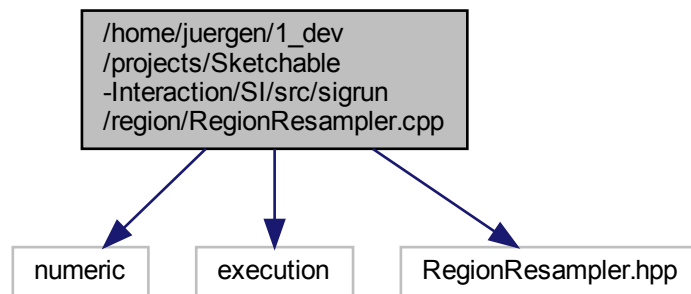
2.26.1.2 NUM_DEFAULT_SCANLINES

```
#define NUM_DEFAULT_SCANLINES 24
```

Definition at line 12 of file `RegionMask.cpp`.

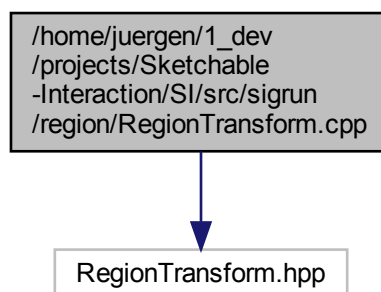
2.27 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionResampler.cpp` File Reference

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



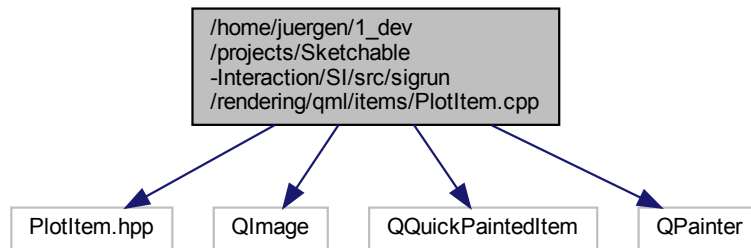
2.28 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionTransform.cpp` File Reference

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



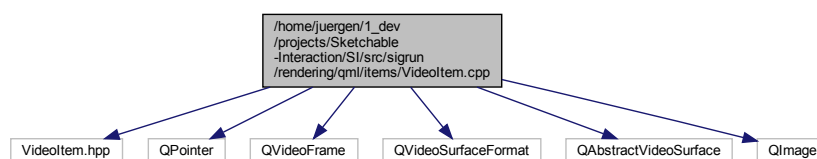
2.29 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/rendering/qml/items/PlotItem.cpp File Reference

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



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

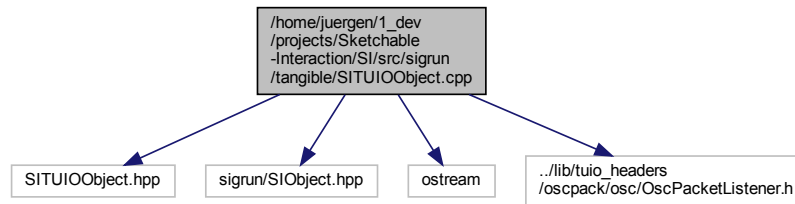
```
#include "VideoItem.hpp"  
Include dependency graph for VideoItem.cpp:
```



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

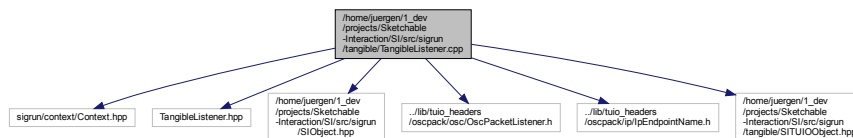
```
#include "SITUIOObject.hpp"
```

Include dependency graph for SITUIOObject.cpp:



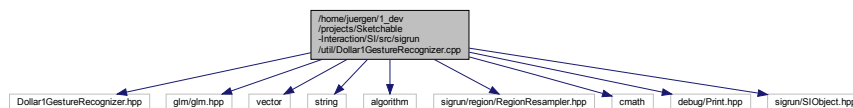
2.32 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/tangible/TangibleListener.cpp File Reference

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



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

```
#include "Dollar1GestureRecognizer.hpp"
Include dependency graph for Dollar1GestureRecognizer.cpp:
```

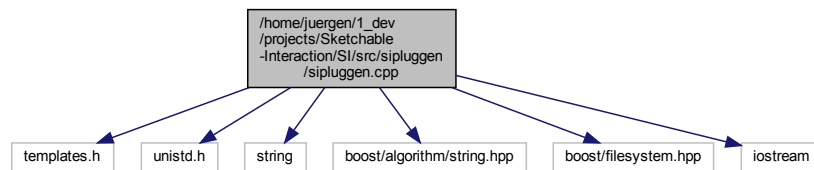


2.34 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sipluggen/sipluggen.cpp File Reference

```
#include "templates.h"
#include <boost/filesystem.hpp>
```

```
#include <iostream>
```

Include dependency graph for sipluggen.cpp:



Functions

- int [main](#) (int argc, char **argv)

2.34.1 Function Documentation

2.34.1.1 main()

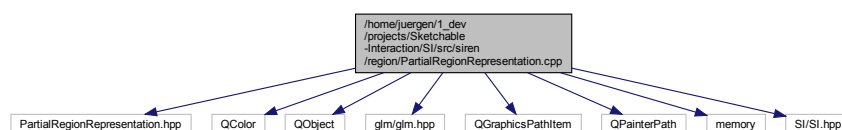
```
int main (
    int argc,
    char ** argv )
```

Definition at line 10 of file sipluggen.cpp.

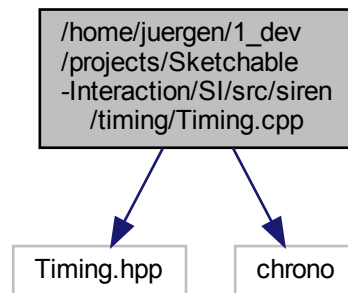
2.35 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/region/PartialRegionRepresentation.cpp File Reference

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

Include dependency graph for PartialRegionRepresentation.cpp:



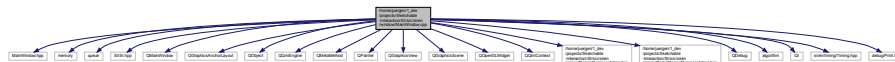
Include dependency graph for Timing.cpp:



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

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

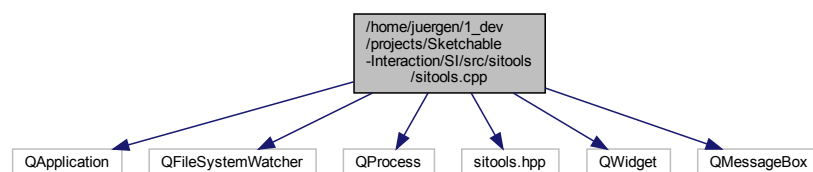
Include dependency graph for MainWindow.cpp:



2.40 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/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[])

2.40.1 Function Documentation

2.40.1.1 `main()`

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

Definition at line 12 of file `sitools.cpp`.

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