

SIGRun

Generated by Doxygen 1.8.15

1 File Index	1
1.1 File List	1
2 File Documentation	3
2.1 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/debug/Print.cpp File Reference	3
2.2 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySI.cpp File Reference	3
2.2.1 Function Documentation	3
2.2.1.1 BOOST_PYTHON_MODULE()	4
2.3 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIEffect.cpp File Reference	4
2.4 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIStartup.cpp File Reference	4
2.5 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/SIGRun.cpp File Reference	5
2.6 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/Context.cpp File Reference	5
2.6.1 Macro Definition Documentation	5
2.6.1.1 NEW_REGIONS_PER_FRAME	6
2.7 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/Collision↵ Manager.cpp File Reference	6
2.8 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/External↵ ApplicationManager.cpp File Reference	6
2.9 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/input/↵ ExternalObject.cpp File Reference	6
2.10 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/input/↵ FileSystem.cpp File Reference	7
2.11 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/linking/↵ Link.cpp File Reference	7
2.12 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/Input↵ Manager.cpp File Reference	7
2.13 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/Linking↵ Manager.cpp File Reference	8
2.14 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/Region↵ Manager.cpp File Reference	8
2.15 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/Core.cpp File Reference	9
2.16 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/log/Log.cpp File Reference	9
2.17 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/parallel/Job.cpp File Reference	9
2.18 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/plugin/PluginCollector.cpp File Reference	10
2.19 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/plugin/Scripting.cpp File Reference	10
2.19.1 Function Documentation	11
2.19.1.1 operator<<()	11
2.20 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/Region.cpp File Reference	11
2.21 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionMask.cpp File Ref- erence	12
2.22 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionResampler.cpp File Reference	12
2.23 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionTransform.cpp File Reference	13

2.24	/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/background/UpdateWorker.cpp	
	File Reference	13
2.25	/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/region/RegionRepresentation.cpp	
	File Reference	13
2.26	/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/RenderEngineQt5.cpp	File Refer-
	ence	14
2.27	/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/window/MainWindow.cpp	File Ref-
	erence	14
Index		15

Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/SIGRun.cpp	5
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/debug/Print.cpp	3
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySl.cpp	3
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIEffect.cpp	4
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIStartup.cpp	4
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/Core.cpp	9
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/Context.cpp	5
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/CollisionManager.cpp	
6	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/ExternalApplicationManager.cpp	
6	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/InputManager.cpp	7
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/LinkingManager.cpp	
8	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/RegionManager.cpp	
8	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/input/ExternalObject.cpp	
6	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/input/FileSystem.cpp	
7	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/linking/Link.cpp	
7	
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/log/Log.cpp	9
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/parallel/Job.cpp	9
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/plugin/PluginCollector.cpp	10
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/plugin/Scripting.cpp	10
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/Region.cpp	11
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionMask.cpp	12
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionResampler.cpp	12
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/region/RegionTransform.cpp	13
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/RenderEngineQt5.cpp	14
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/background/UpdateWorker.cpp	13
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/region/RegionRepresentation.cpp	13
/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/window/MainWindow.cpp	14

File Documentation

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

Include dependency graph for Print.cpp:

[illegible]

- BOOST_PYTHON_MODULE (libPySI)

2.2.1 Function Documentation

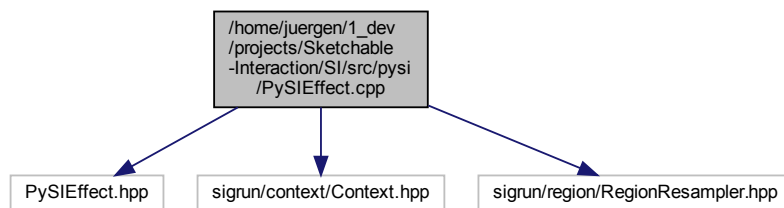
2.2.1.1 BOOST_PYTHON_MODULE()

```
BOOST_PYTHON_MODULE (
    libPySI )
```

Definition at line 7 of file PySI.cpp.

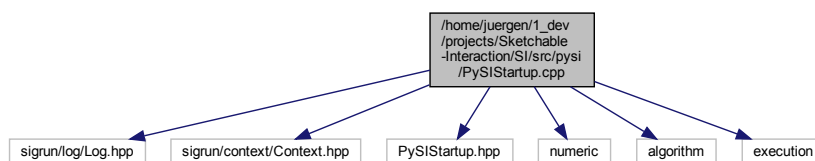
2.3 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIEffect.cpp File Reference

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



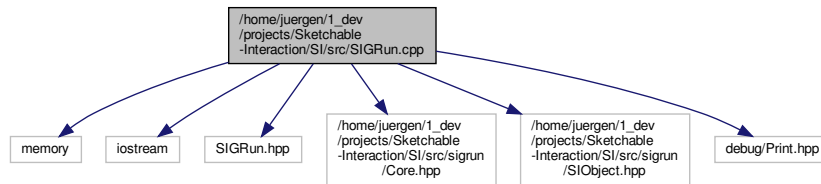
2.4 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/pysi/PySIStartup.cpp File Reference

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



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

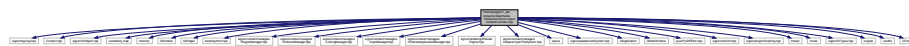
```
#include <memory>
#include <iostream>
#include "SIGRun.hpp"
#include "debug/Print.hpp"
Include dependency graph for SIGRun.cpp:
```



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 dependency graph for Context.cpp:



Macros

- `#define NEW_REGIONS_PER_FRAME 50`

2.6.1 Macro Definition Documentation

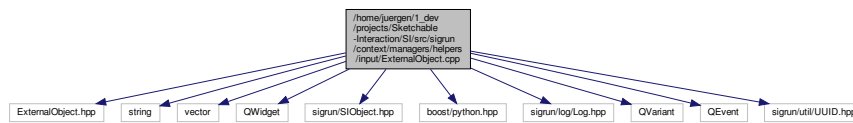
2.10 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/input/↔ FileSystem.cpp File

Reference

7

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

Include dependency graph for ExternalObject.cpp:



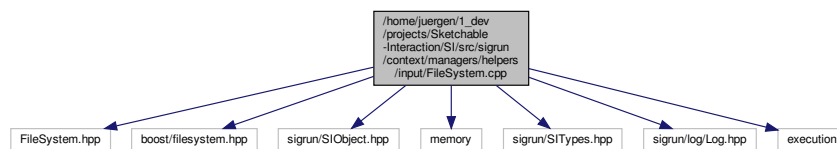
2.10 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/helpers/inpu FileSystem.cpp File Reference

```
#include "FileSystem.hpp"
```

```
#include <sigrun/log/Log.hpp>
```

```
#include <execution>
```

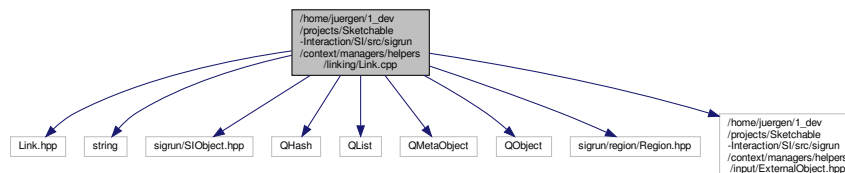
Include dependency graph for FileSystem.cpp:



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

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

Include dependency graph for Link.cpp:

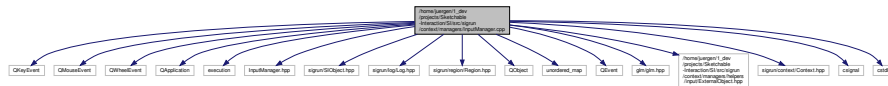


2.12 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/context/managers/↔ InputManager.cpp File Reference

```
#include <QKeyEvent>
```

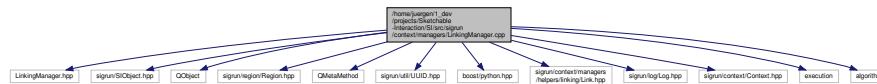
```
#include <QMouseEvent>
```

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



2.13 /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:
```



2.14 /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 <pyssi/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/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>
```

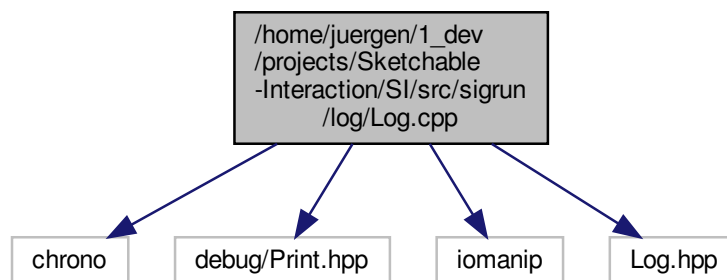
Include dependency graph for Core.cpp:



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

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

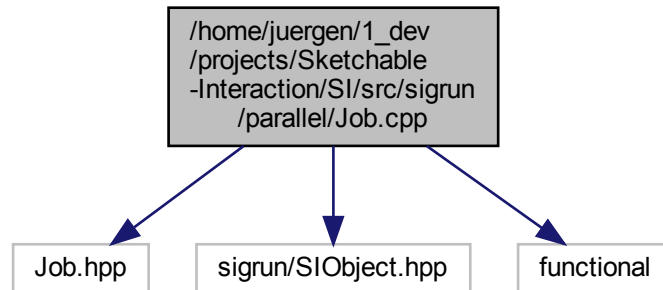
Include dependency graph for Log.cpp:



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

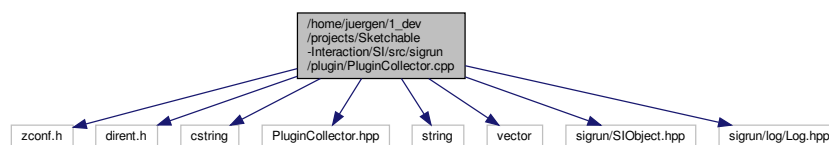
```
#include "Job.hpp"
```

Include dependency graph for Job.cpp:



2.18 `/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 dependency graph for PluginCollector.cpp:
```

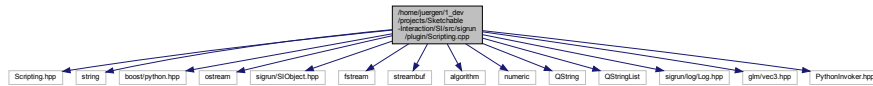


2.19 `/home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/sigrun/plugin/Scripting.cpp` File Reference

```
#include "Scripting.hpp"
#include <fstream>
#include <streambuf>
#include <algorithm>
#include <numeric>
#include <QString>
#include <QStringList>
#include <sigrun/log/Log.hpp>
#include <glm/vec3.hpp>
```

2.20 /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/Region.cpp File Reference ¶ 1

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



Functions

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

2.19.1 Function Documentation

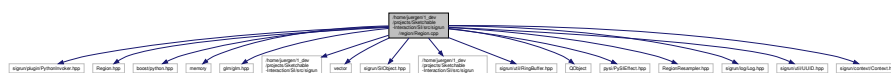
2.19.1.1 operator<<()

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

Definition at line 101 of file Scripting.cpp.

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

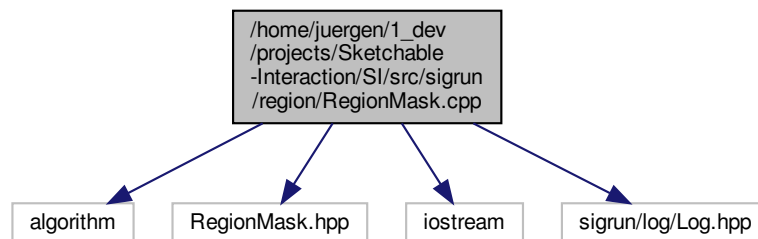
```
#include "sigrun/plugin/PythonInvoker.hpp"
#include "Region.hpp"
#include "RegionResampler.hpp"
#include <sigrun/log/Log.hpp>
#include <sigrun/util/UUID.hpp>
#include <sigrun/context/Context.hpp>
Include dependency graph for Region.cpp:
```



2.21 `/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>
```

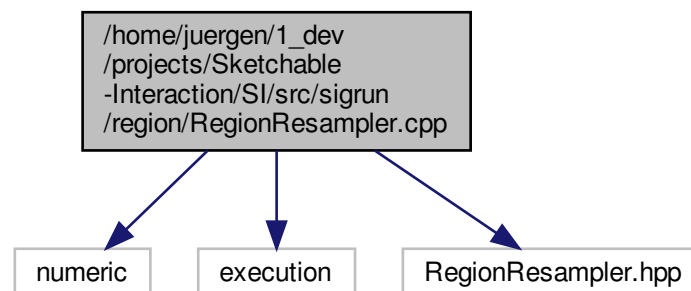
Include dependency graph for RegionMask.cpp:



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

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

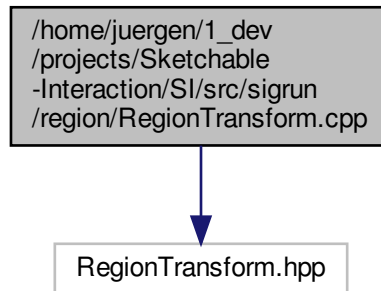
Include dependency graph for RegionResampler.cpp:



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

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

Include dependency graph for RegionTransform.cpp:

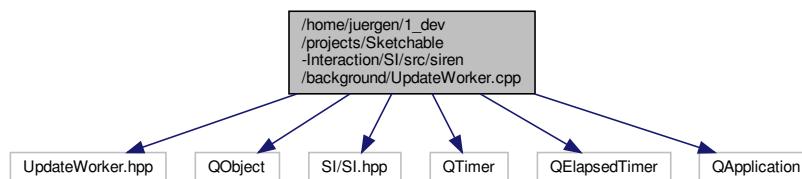


2.24 /home/juergen/1_dev/projects/Sketchable-Interaction/Sl/src/siren/background/UpdateWorker.cpp File Reference

```
#include "UpdateWorker.hpp"
```

```
#include <QApplication>
```

Include dependency graph for UpdateWorker.cpp:



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

```
#include "RegionRepresentation.hpp"
```

```
#include <QLayout>
```

```
#include <execution>
```

```
#include <algorithm>
```

```
#include <numeric>
```


Index

```

/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/SIGRun.cpp,
5                                     /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/region/Region.cpp,
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/debug/Print.cpp,
3                                     /home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/window/Window.cpp,
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/pysi/PySIG.cpp,
3                                     BOOST_PYTHON_MODULE
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/pysi/PySIEffect.cpp,
4                                     PySIG.cpp, 3
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/pysi/PySIGStartup.cpp,
4                                     Context.cpp
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/Core.cpp,
9                                     NEW_REGIONS_PER_FRAME
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/Context.cpp,
5                                     Context.cpp, 9
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/CollisionManager.cpp,
6                                     Scripting.cpp, 11
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/ExternalApplicationManager.cpp,
6                                     PySIG.cpp
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/InputManager.cpp,
7                                     BOOST_PYTHON_MODULE 3
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/LinkingManager.cpp,
8                                     Scripting.cpp
operator<<, 11
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/RegionManager.cpp,
8
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/input/ExternalObject.cpp,
6
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/input/FileSystem.cpp,
7
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/context/managers/helpers/linking/Link.cpp,
7
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/log/Log.cpp,
9
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/parallel/Job.cpp,
9
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/plugin/PluginCollector.cpp,
10
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/plugin/Scripting.cpp,
10
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/Region.cpp,
11
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/RegionMask.cpp,
12
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/RegionResampler.cpp,
12
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/sigrun/region/RegionTransform.cpp,
13
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/RenderEngineQt5.cpp,
14
/home/juergen/1_dev/projects/Sketchable-Interaction/SI/src/siren/background/UpdateWorker.cpp,

```