

Capturing with libpcap

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Contents

1	Class Index	1
1.1	Class List	1
2	File Index	3
2.1	File List	3
3	Class Documentation	5
3.1	PcapWrapper Class Reference	5
3.1.1	Detailed Description	6
3.1.2	Constructor & Destructor Documentation	6
3.1.2.1	PcapWrapper	6
3.1.2.2	~PcapWrapper	6
3.1.3	Member Function Documentation	6
3.1.3.1	run	6
3.1.3.2	setFilter	6
3.1.4	Member Data Documentation	6
3.1.4.1	dev	6
3.1.4.2	errbuf	6
3.1.4.3	filter	6
3.1.4.4	fp	6
3.1.4.5	handle	6
3.1.4.6	mask	6
3.1.4.7	net	6
4	File Documentation	7
4.1	main.cpp File Reference	7
4.1.1	Function Documentation	7
4.1.1.1	main	7
4.2	pcapwrapper.cpp File Reference	8
4.2.1	Function Documentation	8
4.2.1.1	got_packet	8
4.2.1.2	terminate_process	8

4.2.2	Variable Documentation	8
4.2.2.1	_handle	8
4.3	pcapwrapper.h File Reference	8

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

PcapWrapper	This class encapsulates some functions of libpcap	5
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Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

main.cpp	7
pcapwrapper.cpp	8
pcapwrapper.h	8

Chapter 3

Class Documentation

3.1 PcapWrapper Class Reference

This class encapsulates some functions of libpcap.

```
#include <pcapwrapper.h>
```

Collaboration diagram for PcapWrapper:

PcapWrapper
<div><div>- dev</div><div>- filter</div><div>- errbuf</div><div>- mask</div><div>- net</div><div>- fp</div><div>- handle</div></div>
<div><div>+ PcapWrapper()</div><div>+ ~PcapWrapper()</div><div>+ run()</div><div>+ setFilter()</div></div>

Public Member Functions

- [PcapWrapper](#) (char *=NULL)
- [~PcapWrapper](#) ()
- void [run](#) (int=0)
- void [setFilter](#) (char *)

Private Attributes

- char * [dev](#)
- char * [filter](#)
- char [errbuf](#) [PCAP_ERRBUF_SIZE]
- bpf_u_int32 [mask](#)
- bpf_u_int32 [net](#)
- struct bpf_program [fp](#)
- pcap_t * [handle](#)

3.1.1 Detailed Description

This class encapsulates some functions of libpcap.

This class can be used as an exercise for a simple packet capture.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 `PcapWrapper::PcapWrapper (char * filter_ = NULL)`

3.1.2.2 `PcapWrapper::~~PcapWrapper ()`

3.1.3 Member Function Documentation

3.1.3.1 `void PcapWrapper::run (int stoptime_ = 0)`

3.1.3.2 `void PcapWrapper::setFilter (char * filter_)`

3.1.4 Member Data Documentation

3.1.4.1 `char* PcapWrapper::dev` [private]

3.1.4.2 `char PcapWrapper::errbuf[PCAP_ERRBUF_SIZE]` [private]

3.1.4.3 `char * PcapWrapper::filter` [private]

3.1.4.4 `struct bpf_program PcapWrapper::fp` [private]

3.1.4.5 `pcap_t* PcapWrapper::handle` [private]

3.1.4.6 `bpf_u_int32 PcapWrapper::mask` [private]

3.1.4.7 `bpf_u_int32 PcapWrapper::net` [private]

The documentation for this class was generated from the following files:

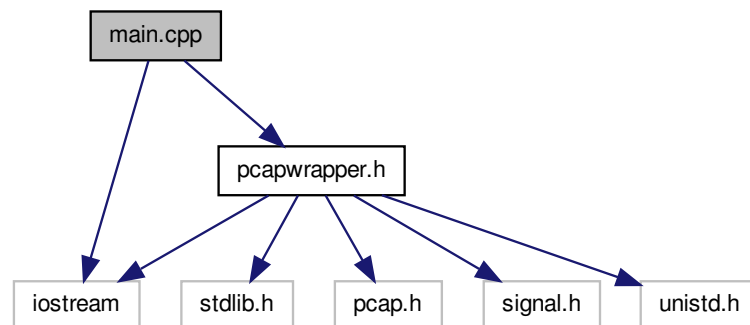
- [pcapwrapper.h](#)
- [pcapwrapper.cpp](#)

Chapter 4

File Documentation

4.1 main.cpp File Reference

```
#include <iostream>
#include "pcapwrapper.h"
Include dependency graph for main.cpp:
```



Functions

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

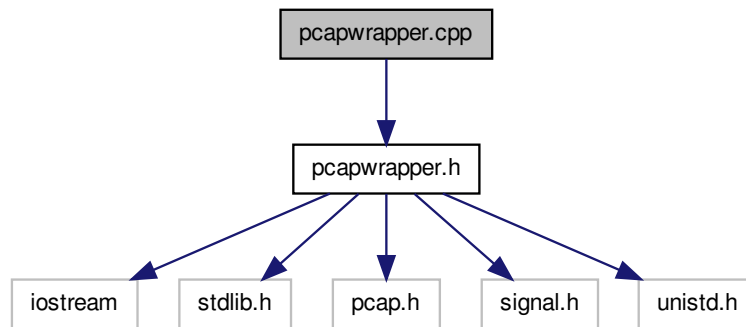
4.1.1 Function Documentation

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

4.2 pcapwrapper.cpp File Reference

```
#include "pcapwrapper.h"
```

Include dependency graph for pcapwrapper.cpp:



Functions

- void [terminate_process](#) (int)
- void [got_packet](#) (u_char *args, const struct pcap_pkthdr *header, const u_char *packet)

Variables

- pcap_t * [_handle](#)

4.2.1 Function Documentation

4.2.1.1 void [got_packet](#) (u_char * *args*, const struct pcap_pkthdr * *header*, const u_char * *packet*)

4.2.1.2 void [terminate_process](#) (int)

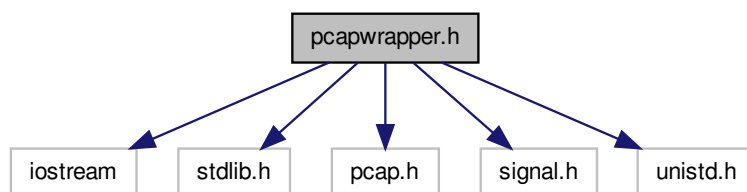
4.2.2 Variable Documentation

4.2.2.1 pcap_t* [_handle](#)

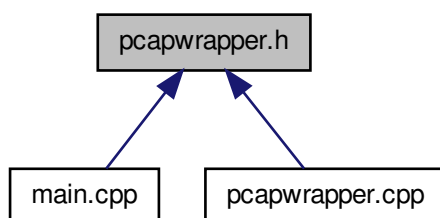
4.3 pcapwrapper.h File Reference

```
#include <iostream>
#include <stdlib.h>
#include <pcap.h>
#include <signal.h>
#include <unistd.h>
```

Include dependency graph for pcapwrapper.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [PcapWrapper](#)

This class encapsulates some functions of libpcap.

Index

- ~PcapWrapper
 - PcapWrapper, [6](#)
- _handle
 - pcapwrapper.cpp, [8](#)
- dev
 - PcapWrapper, [6](#)
- errbuf
 - PcapWrapper, [6](#)
- filter
 - PcapWrapper, [6](#)
- fp
 - PcapWrapper, [6](#)
- got_packet
 - pcapwrapper.cpp, [8](#)
- handle
 - PcapWrapper, [6](#)
- main
 - main.cpp, [7](#)
- main.cpp, [7](#)
 - main, [7](#)
- mask
 - PcapWrapper, [6](#)
- net
 - PcapWrapper, [6](#)
- PcapWrapper, [5](#)
 - ~PcapWrapper, [6](#)
 - dev, [6](#)
 - errbuf, [6](#)
 - filter, [6](#)
 - fp, [6](#)
 - handle, [6](#)
 - mask, [6](#)
 - net, [6](#)
 - PcapWrapper, [6](#)
 - PcapWrapper, [6](#)
 - run, [6](#)
 - setFilter, [6](#)
- pcapwrapper.cpp, [8](#)
 - _handle, [8](#)
 - got_packet, [8](#)
 - terminate_process, [8](#)
- pcapwrapper.h, [8](#)
- run
 - PcapWrapper, [6](#)
- setFilter
 - PcapWrapper, [6](#)
- terminate_process
 - pcapwrapper.cpp, [8](#)