Aracne

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Contents

1 File Index **1**

1.1 File List 1

2 File Documentation **3**

2.1 dump.cpp File Reference 3

2.1.1 Function Documentation 3

2.1.1.1 cutHead() 3

2.1.1.2 dump() 3

2.1.1.3 fixRefs() 4

2.1.1.4 generateMap() 4

2.1.1.5 makeDump() 4

2.2 inspector.cpp File Reference 4

2.2.1 Macro Definition Documentation 5

2.2.1.1 MAXRCVLEN 5

2.2.2 Function Documentation 5

2.2.2.1 inspector() 5

2.2.2.2 readBinaryFile() 5

2.2.2.3 readTextFile() 5

2.2.2.4 writeFile() 5

2.2.3 Variable Documentation 6

2.2.3.1 fml 6

2.3 main.cpp File Reference 6

2.3.1 Function Documentation 6

2.3.1.1 main() 6

2.4 proxy.cpp File Reference 6
2.4.1 Macro Definition Documentation 7
2.4.1.1 MAXRCVLEN 7
2.4.2 Function Documentation 7
2.4.2.1 proxy() 7
2.5 receive.cpp File Reference 7
2.5.1 Function Documentation 7
2.5.1.1 createNewSocket() 7
2.5.1.2 freeMemory() 8
2.6 request.cpp File Reference 8
2.6.1 Function Documentation 8
2.6.1.1 getHostValue() 8
2.6.1.2 makeRequest() 8
2.7 spyder.cpp File Reference 8
2.7.1 Function Documentation 9
2.7.1.1 buildReference() 9
2.7.1.2 generateTree() 9
2.7.1.3 isHTML() 10
2.7.1.4 isReallyHTML() 10
2.7.1.5 searchChildren() 11
2.7.1.6 spyder() 11

Index 13

Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

dump.cpp 3
inspector.cpp 4
main.cpp 6
proxy.cpp 6
receive.cpp 7
request.cpp 8
spyder.cpp 8

Chapter 2

File Documentation

2.1 dump.cpp File Reference

```
#include "connection.hpp"
```

Functions

- void makeDump (string baseURL)
- int dump (set< string > requests, string baseURL)
- void generateMap (map< string, string > &mapRefs, set< string > &requests, string baseURL)
- string cutHead (string serverRequest)
- void fixRefs (string &serverResponse, map< string, string > &mapRefs)

2.1.1 Function Documentation

2.1.1.1 cutHead()

```
string cutHead (
          string serverRequest )
```

Definition at line 108 of file dump.cpp.

2.1.1.2 dump()

```
int dump (
          set< string > requests,
          string baseURL )
```

Definition at line 10 of file dump.cpp.

2.1.1.3 fixRefs()

```
void fixRefs (
            string & serverResponse,
            map< string, string > & mapRefs )
```

Definition at line 118 of file dump.cpp.

2.1.1.4 generateMap()

```
void generateMap (
            map< string, string > & mapRefs,
            set< string > & requests,
            string baseURL )
```

Definition at line 78 of file dump.cpp.

2.1.1.5 makeDump()

```
void makeDump (
            string baseURL )
```

Definition at line 5 of file dump.cpp.

2.2 inspector.cpp File Reference

```
#include "connection.hpp"
```

Macros

- #define MAXRCVLEN 2000

Functions

- int inspector (int PORTNUM)
- std::vector< unsigned char > readBinaryFile (string filename)
- std::string readTextFile (string path)
- bool writeFile (string path, vector< unsigned char > dados)

Variables

- struct freeMemoryList fml

2.2.1 Macro Definition Documentation

2.2.1.1 MAXRCVLEN

```
#define MAXRCVLEN 2000
```

Definition at line 3 of file inspector.cpp.

2.2.2 Function Documentation

2.2.2.1 inspector()

```
int inspector (
             int PORTNUM )
```

Definition at line 8 of file inspector.cpp.

2.2.2.2 readBinaryFile()

```
std::vector<unsigned char> readBinaryFile (
             string filename )
```

Definition at line 73 of file inspector.cpp.

2.2.2.3 readTextFile()

```
std::string readTextFile (
             string path )
```

Definition at line 100 of file inspector.cpp.

2.2.2.4 writeFile()

```
bool writeFile (
             string path,
             vector< unsigned char > dados )
```

Definition at line 109 of file inspector.cpp.

2.2.3 Variable Documentation

2.2.3.1 fml

```
struct freeMemoryList fml
```

Definition at line 5 of file inspector.cpp.

2.3 main.cpp File Reference

```
#include "connection.hpp"
```

Functions

- int main (int argc, char ∗argv[ ])

2.3.1 Function Documentation

2.3.1.1 main()

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

Definition at line 5 of file main.cpp.

2.4 proxy.cpp File Reference

```
#include "connection.hpp"
```

Macros

- #define MAXRCVLEN 2000

Functions

- int proxy (int PORTNUM)

2.4.1 Macro Definition Documentation

2.4.1.1 MAXRCVLEN

```
#define MAXRCVLEN 2000
```

Definition at line 3 of file proxy.cpp.

2.4.2 Function Documentation

2.4.2.1 proxy()

```
int proxy (
             int PORTNUM )
```

Definition at line 7 of file proxy.cpp.

2.5 receive.cpp File Reference

```
#include "connection.hpp"
```

Functions

- int createNewSocket (uint16_t portNum, uint16_t parallelConnections)
- void freeMemory ()

2.5.1 Function Documentation

2.5.1.1 createNewSocket()

```
int createNewSocket (
             uint16_t portNum,
             uint16_t parallelConnections )
```

Definition at line 3 of file receive.cpp.

2.5.1.2 freeMemory()

```
void freeMemory ( )
```

Definition at line 35 of file receive.cpp.

2.6 request.cpp File Reference

```
#include "connection.hpp"
```

Functions

- vector< unsigned char > makeRequest (std::string msg_string)
- std::string getHostValue (std::string msg_string)

2.6.1 Function Documentation

2.6.1.1 getHostValue()

```
std::string getHostValue (
             std::string msg_string )
```

Definition at line 46 of file request.cpp.

2.6.1.2 makeRequest()

```
vector<unsigned char> makeRequest (
             std::string msg_string )
```

Definition at line 5 of file request.cpp.

2.7 spyder.cpp File Reference

```
#include "connection.hpp"
#include "spyder.hpp"
```

Functions

- set< string > spyder (string baseURL)
- void buildReference (set< string > &result, string response, string baseURL)
- bool isHTML (string url, string baseURL)
- bool isReallyHTML (string url, string baseURL)
- set< string > searchChildren (string url, string baseURL)
- Tree generateTree (string baseURL, int levels)

2.7.1 Function Documentation

2.7.1.1 buildReference()

```
void buildReference (
            set< string > & result,
            string response,
            string baseURL )
```

<Insere em result os arquivos/diretórios encontrados em response>

Parameters

result	Endereço do set onde serão inseridas as referências.
response	resposta obtida do request.
baseURL	URL base do domínio desejado.

Definition at line 26 of file spyder.cpp.

2.7.1.2 generateTree()

```
Tree generateTree (
            string baseURL,
            int levels )
```

<Gera a árvore hipertextual.>

Parameters

baseURL	URL base do domínio desejado.
levels	Número de níveis máximos desejados para a árvore..

Returns

Tree: Árvore gerada.

Definition at line 204 of file spyder.cpp.

2.7.1.3 isHTML()

```
bool isHTML (
            string url,
            string baseURL )
```

<Inspeciona um cabeçalho para saber se um caminho é HTML para saber se deve ser inspecionado.>

Parameters

url	Url da referência.
baseURL	URL base do domínio desejado.

Returns

bool: Indica se é ou não HTML.

Definition at line 129 of file spyder.cpp.

2.7.1.4 isReallyHTML()

```
bool isReallyHTML (
            string url,
            string baseURL )
```

<Verifica se o cabeçalho da url já foi inspecionado para retornar a informação se a url é ou não um HTML.>

Parameters

url	Url da referência.
baseURL	URL base do domínio desejado.

Returns

bool: Indica se é ou não HTML.

Definition at line 157 of file spyder.cpp.

2.7.1.5 searchChildren()

```
set<string> searchChildren (
            string url,
            string baseURL )
```

<Busca pelas referências um nível exatamente abaixo da url.>

Parameters

url	Url que será buscada.
baseURL	URL base do domínio desejado.

Returns

set<string>: Conjunto de referências encontradas na url.

Definition at line 177 of file spyder.cpp.

2.7.1.6 spyder()

```
set<string> spyder (
            string baseURL )
```

<Função principal do spyder.>

Parameters

baseURL	URL base do domínio desejado.

Returns

set<string>: Set com os nomes das referências encontradas.

Definition at line 6 of file spyder.cpp.

Index

buildReference
  spyder.cpp, 9

createNewSocket
  receive.cpp, 7
cutHead
  dump.cpp, 3

dump
  dump.cpp, 3
dump.cpp, 3
  cutHead, 3
  dump, 3
  fixRefs, 3
  generateMap, 4
  makeDump, 4

fixRefs
  dump.cpp, 3
fml
  inspector.cpp, 6
freeMemory
  receive.cpp, 7

generateMap
  dump.cpp, 4
generateTree
  spyder.cpp, 9
getHostValue
  request.cpp, 8

inspector
  inspector.cpp, 5
inspector.cpp, 4
  fml, 6
  inspector, 5
  MAXRCVLEN, 5
  readBinaryFile, 5
  readTextFile, 5
  writeFile, 5
isHTML
  spyder.cpp, 10
isReallyHTML
  spyder.cpp, 10

MAXRCVLEN
  inspector.cpp, 5
  proxy.cpp, 7
main
  main.cpp, 6
main.cpp, 6
  main, 6
makeDump
  dump.cpp, 4
makeRequest
  request.cpp, 8

proxy
  proxy.cpp, 7
proxy.cpp, 6
  MAXRCVLEN, 7
  proxy, 7

readBinaryFile
  inspector.cpp, 5
readTextFile
  inspector.cpp, 5
receive.cpp, 7
  createNewSocket, 7
  freeMemory, 7
request.cpp, 8
  getHostValue, 8
  makeRequest, 8

searchChildren
  spyder.cpp, 10
spyder
  spyder.cpp, 11
spyder.cpp, 8
  buildReference, 9
  generateTree, 9
  isHTML, 10
  isReallyHTML, 10
  searchChildren, 10
  spyder, 11

writeFile
  inspector.cpp, 5