

License

The eyoung is open source free software, using the GNU GENERAL PUBLIC LICENSE Version 2.

How to get the code?

The source code of the eyoung is hosted on the github.com. The project URL is:

<https://github.com/eyoung-father/eyoung.git>

You can use *svn* or *git* to download the source code. Run following commands:

For SVN User: *svn checkout https://github.com/eyoung-father/eyoung.git eyoung*

For GIT User: *git clone https://github.com/eyoung-father/eyoung.git*

The latest version of the eyoung is 1.0, and the branch URL is:

https://github.com/eyoung-father/eyoung.git/branches/EYOUNG_R1

How to compile the code?

To compile the source code, you need do:

1. Install the compiling tools, which are in the directory *tool*:

- a) Install software m4:

```
tar xzf m4-1.4.16.tar.gz
cd m4-1.4.16
./configure
make
make install
```

- b) Install software bison:

```
tar xf bison-2.7.tar.gz
cd bison-2.7
patch data/yacc.c ../yacc.c.diff
./configure
make
make install
```

- c) Install software flex:

```
tar xf flex-2.5.37.tar.bz2
cd flex-2.5.37
./configure
```

```
make
make install
```

d) Install library libelf:

```
cd libelf-0.8.9.tar
./configure
make
make install
```

2. Code pre-processing:

```
make prepare
```

3. Compile the code:

Because a JIT compiler is embedded in the eyoung system, the eyoung is not independent of all CPU architectures. The eyoung version 1 only support 3 CPU architectures: X86-32, X86-64, ARM V7.

For X86-32, to compile the codes, please run:

```
make ARCH=i386
```

For ARM V7, please run:

```
make ARCH=arm
```

For X86-64, please run:

```
make ARCH=x86-64
```

4. Copy the libraries into the directory included in environment variable \$LD_LIBRARY_PATH:

```
cp build/lib/*.so [ld-path]
```

How to run the demo?

1. Compile demo:


a) Compile the dependent libraries.


b) Open the director libdecoder/http/testsuite, and run make:


```
cd libdecoder/http/testsuite
make
```

2. Run the demo:

```
./http_xss http_xss.ey case/req-15.msg
```

 The program http_xss is compiled from source code file demo_http_xss.c. The source code file shows how to use the APIs of the eyoung system. For details, please refer to [Programming Guide](#).

 The http_xss.ey is a signature file, which includes a signature for detecting HTTP Crossing Site Script (XSS) attacks. The file shows how to write eyoung signatures. For details, please refer to [Signature Specification](#).

 The req-15.msg is a simulation of a HTTP POST request, in which there is a HTTP XSS attempt.

Document

All the documents are in the directory *doc*. Document *Programming Guide* shows the details of the eyoung, such as concept, programming model, APIs etc. Document *Signature Specification* introduces the eyoung signature format and how to write powerful signatures.

Contact

If you have any idea or find bugs, please contact me: eyoung.father@gmail.com