


01.Static Library

 Unknown macro: 'html'

Excuse the ads! We need some help to keep our site up.

 Unknown macro: 'html'

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Static Library

- [\(Static Library\)](#) [\(.a\)](#) .
 - .
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Example

Source code(Shared library)

lazenca.c

```
#include <stdio.h>

void lazenca(int a){
    printf("lazenca.0x%d\n",a);
}
```

Source code(executable)

test.c

```
#include <stdio.h>

void main(){
    lazenca(10,10);
}
```

Build

- gcc -c
- ar (.a)

Build Command

```
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$ gcc -c lazenca.c
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$ ar vr libstatic.a lazenca.o
ar: creating libstatic.a
a - lazenca.o
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$ gcc -o testStatic test.c libstatic.a
test.c: In function 'main':
test.c:4:5: warning: implicit declaration of function 'lazenca' [-Wimplicit-function-declaration]
    lazenca(10,10);
    ^
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$
```

Run

```
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$ ./testStatic
Lazenca.0x10
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$
```

Check for shared library in the executable file

- Shared library Static library ldd .

```
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$ ldd ./testStatic
linux-vdso.so.1 => (0x00007ffdad1f7000)
libc.so.6 => /lib/x86_64-linux-gnu/libc.so.6 (0x00007fc279822000)
/lib64/ld-linux-x86-64.so.2 (0x00005626edadf000)
lazenca0x0@ubuntu:~/Documents/Definition/protection/PIC$
```

Related information

- N/a



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