

2014 11 11

test.c

```
#include <stdio.h>

int main(void)
{
    fputs("Hello, world! \n", stdout);
    return 0;
}
```

```
$ gcc test.c
$ ./a.out
Hello, world!
```

```
$ ./configure
$ make
$ make install
```



configure

configure

configure

```
$ ./configure --prefix=/www --with-mysql
```

mysql

header

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1 B A

2 B A

configure

precompilation

stdio.h

#define

Preprocessing

bash

stdio.h

```
extern int fputs(const char *, FILE *);
extern FILE *stdout;

int main(void)
{
    fputs("Hello, world! \n", stdout);
    return 0;
}
```

fputs FILE

stdio.h

" " Preprocessing

Compilation

assembly

```
.file "test.c"
.section .rodata
.LC0:
```

```

.string "Hello, world! \n"
.text
.globl main
.type main, @function
main:
.LFB0:
.cfi_startproc
pushq %rbp
.cfi_def_cfa_offset 16
.cfi_offset 6, -16
movq %rsp, %rbp
.cfi_def_cfa_register 6
movq stdout(%rip), %rax
movq %rax, %rcx
movl $14, %edx
movl $1, %esi
movl $.LC0, %edi
call fwrite
movl $0, %eax
popq %rbp
.cfi_def_cfa 7, 8
ret
.cfi_endproc
.LFE0:
.size main, .-main
.ident "GCC: (Debian 4.9.1-19) 4.9.1"
.section .note.GNU-stack,"",@progbits

```

object file

Linking

stdout fwrite

stdout fw

static linkingdynamic linking

linking

make

Installation

" " Installation

txt

Linux

/usr/share/applications .desktop

" " make install " " " "

Dynamic linking

runtime

Linux .so Windows .dll Mac .dylib