

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
```

Image not found or type unknown



configure

autoconf

configure

configure

configure

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

php

www

mysql

standard library

header

A B

```
1 B A
2 B A
```

makefile

makefile

configure

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 linking dynamic linking

linking

make

Installation

" " Installation

txt

Linux

/usr/share/applications

.desktop

" " make install

" " " "

Dynamic linking

runtime

Linux

.so

Windows

.dll

Mac

.dylib

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