

# 附加题1

```
mips-linux-gnu-gcc -static -o aout -g main.c
```

```
# 交叉编译
```

```
./qemu-mips-static -g 8080 aout
```

```
# qemu调试, 并开启远程端口
```

```
# 然后打开另一个terminal
```

```
gdb-multiarch ./aout
```

```
target remote localhost:8080
```

```
# ctrl a(可视化模式)
```

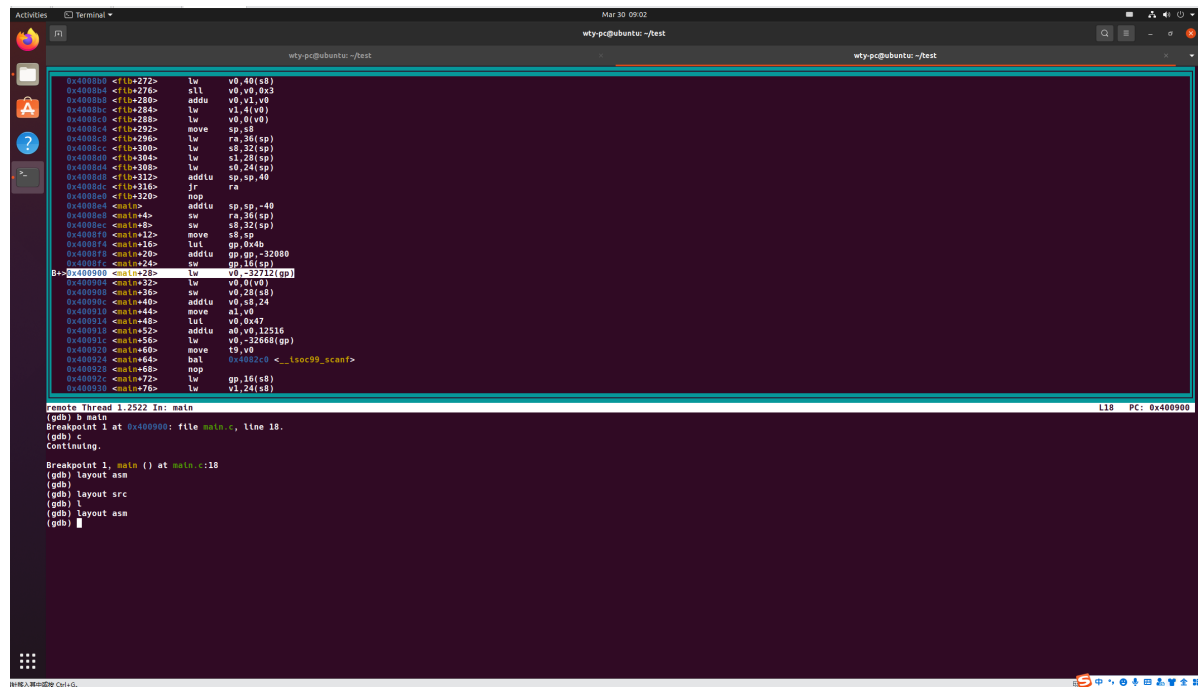
```
b main
```

```
c #执行到断点
```

```
layout asm#汇编
```

```
layout src#c代码
```

```
# n b下一步指令
```



```
Activities Terminal Mar 30 09:02
wty-pc@ubuntu: ~/test
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0x00000000 <file+272> lw v0,40(s0)
0x00000004 <file+276> sll v0,v0,0x3
0x00000008 <file+280> addu v0,v0,v0
0x0000000c <file+284> lw v1,4(v0)
0x00000010 <file+288> lw v0,0(v0)
0x00000014 <file+292> move s0,s0
0x00000018 <file+296> lw ra,36(sp)
0x0000001c <file+300> lw s0,32(sp)
0x00000020 <file+304> lw s1,28(sp)
0x00000024 <file+308> lw s0,24(sp)
0x00000028 <file+312> addu sp,sp,40
0x0000002c <file+316> jr ra
0x00000030 <file+320> nop
0x00000034 <main> addiu sp,sp,-40
0x00000038 <main> sw ra,36(sp)
0x0000003c <main> sw s0,32(sp)
0x00000040 <main> move s0,s0
0x00000044 <main> lwl gp,94b
0x00000048 <main> addiu gp,gp,-32000
0x0000004c <main> addiu gp,gp,-32000
0x00000050 <main> sw gp,16(sp)
0x00000054 <main> lw v0,32(s1)
0x00000058 <main> lw v0,0(v0)
0x0000005c <main> sw v0,24(s0)
0x00000060 <main> addiu v0,s0,24
0x00000064 <main> move a1,v0
0x00000068 <main> lwl v0,0x47
0x0000006c <main> addiu a0,v0,12516
0x00000070 <main> lw v0,-2660(gp)
0x00000074 <main> move t9,v0
0x00000078 <main> bal 0x4002c0 <__tloc99_scanf>
0x0000007c <main> nop
0x00000080 <main> lw gp,16(s0)
0x00000084 <main> lw v1,24(s0)

remote thread 1.2522 in: main
(gdb) b main
Breakpoint 1 at 0x400000: file main.c, line 18.
(gdb) c
Continuing.

Breakpoint 1, main () at main.c:18
(gdb) layout asm
(gdb)
(gdb) layout src
(gdb) l
(gdb) layout asm
(gdb)
```