

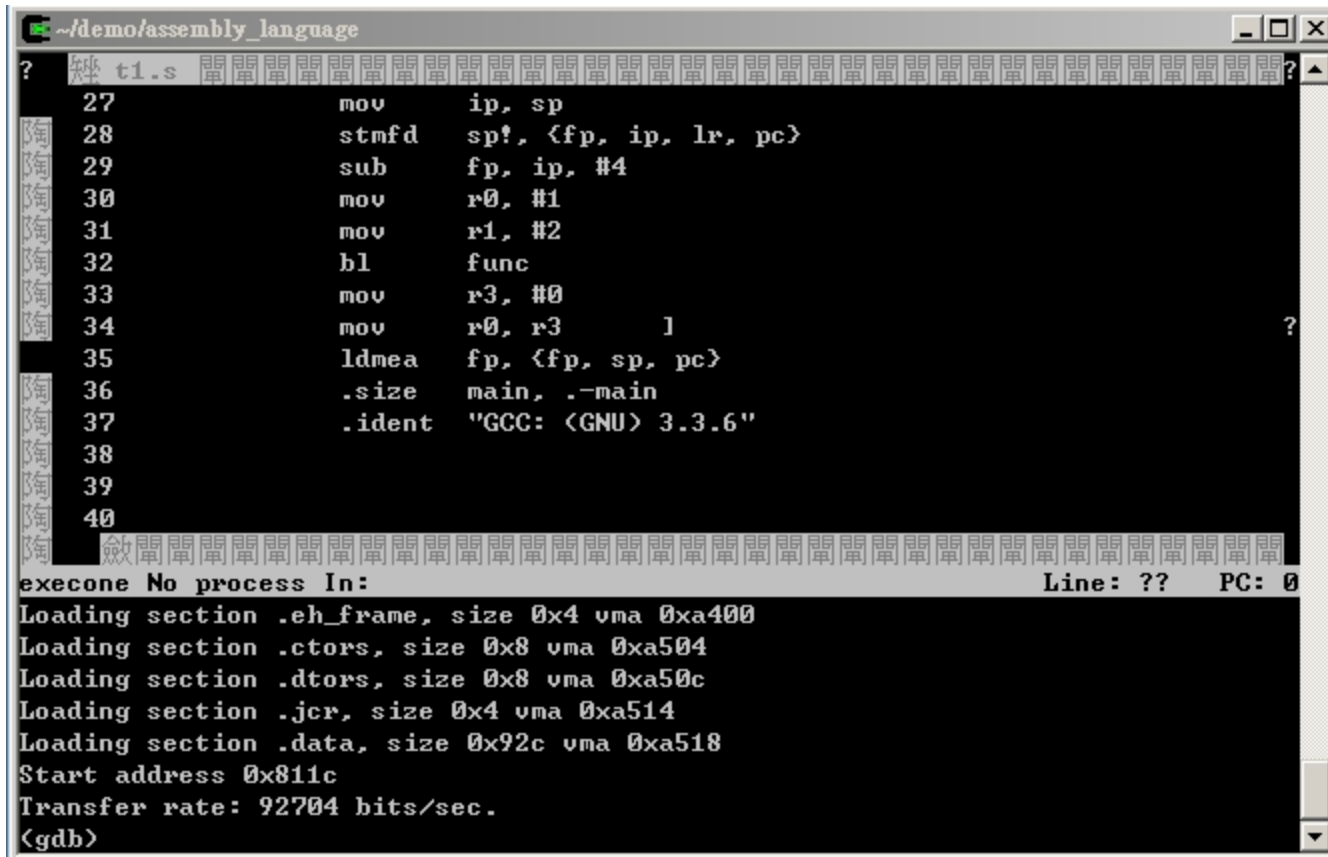
GDB Command-Line Mode

Fall, 2017

GDB Command-Line Mode

- %arm-elf-insight -tui
- %arm-elf-insight -nw

或 arm-elf-gdb -tui
arm-elf-gdb



```
~/demo/assembly_language
? t1.s
27      mov     ip, sp
28      stmfd   sp!, {fp, ip, lr, pc}
29      sub     fp, ip, #4
30      mov     r0, #1
31      mov     r1, #2
32      bl      func
33      mov     r3, #0
34      mov     r0, r3      l
35      ldmea   fp, {fp, sp, pc}
36      .size   main, .-main
37      .ident   "GCC: (GNU) 3.3.6"
38
39
40
execone No process In:                               Line: ??  PC: 0
Loading section .eh_frame, size 0x4 vma 0xa400
Loading section .ctors, size 0x8 vma 0xa504
Loading section .dtors, size 0x8 vma 0xa50c
Loading section .jcr, size 0x4 vma 0xa514
Loading section .data, size 0x92c vma 0xa518
Start address 0x811c
Transfer rate: 92704 bits/sec.
(gdb>
```

- (gdb) file a.out

Reading symbols from /home/pschen/demo/assembly_language/a.out...done.

- (gdb) target sim

Connected to the simulator.

- (gdb) load a.out

Loading section .eh_frame, size 0x4 vma 0xa400

Loading section .ctors, size 0x8 vma 0xa504

Loading section .dtors, size 0x8 vma 0xa50c

Loading section .jcr, size 0x4 vma 0xa514

Loading section .data, size 0x92c vma 0xa518

Start address 0x811c

Transfer rate: 15450 bits/sec.

Commands

- (gdb) break 27

Insert a breakpoint at line 27

Breakpoint 1 at 0x8254: file t1.s, line 27.

- (gdb) r

run

- (gdb) n

next

- (gdb) s

step (step in)

- (gdb) info register

List all register contents

- 列出所有register的值

(gdb) info register

(gdb) print \$r0

- 設定register r0為100

(gdb) set \$r0=100

- (gdb) list => list source code
- (gdb) quit => exit GDB
- (gdb) x/10 0x0
 - dump memory content from 0x0
 - repeat count = 10

0x0:	0xe59ff838	0xea00089b	0xe59ff838	0xe59ff838
0x10:	0xe59ff838	0xe59ff838	0xe59ff838	0xe59ff838
0x20:	0x00000000	0x00000000		