

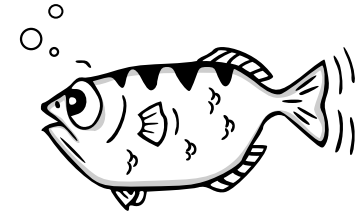
GNU Debugger <https://www.gnu.org/software/gdb/>

arm-none-eabi-gdb
arm-none-eabi-gdb-py

Documentation

- <https://www.gnu.org/software/gdb/documentation/>
- `apt install gdb-doc`
- `info gdb`

-v Version
--tui Text User Interface
-x script Execute Script



Register Window (regs)

| Register | Value | Register | Value |
|----------|------------|-----------|--------------------|
| r0 | 0x65 | r1 | 0x20000009 |
| r2 | 0x40021004 | r3 | 0x705000a |
| r4 | 0x8000400 | r5 | 0x20000444 |
| r6 | 0x20 | r7 | 0x20001fe0 |
| r8 | 0x67a442c3 | r9 | 0xfb7bbfe0 |
| r10 | 0x7bd7d9ae | r11 | 0xbf9bb68 |
| r12 | 0x617c6271 | sp | 0x20001fe0 |
| lr | 0x800028d | pc | 0x800015e <main+6> |
| xPSR | 0x21000000 | mSP | 0x20001fe0 |
| psp | 0x772976fc | primask | 0x0 |
| basepri | 0x0 | faultmask | 0x0 |
| control | 0x0 | | |

Sourcecode Window (src, asm)

```

main.c
46     int main(void)
47     {
48     unsigned long loopcnt = 0;
49
50     /* GPIO Port C Clock Enable */
51     RCC_APB2ENR |= (1 << 4);
52
53     /* Port C all output */
54     GPIOC_CRH = 0x33333333;
55
56     uart_init();
57     uart_putString("es2-starter is running...\n\r");
    
```

Command Window (cmd)

```

remote Remote target In: main
(arm-gdb)
    
```

Command History: C-p C-n
set pagination on|off

```

(arm-gdb) layout regs
(arm-gdb) layout split
(arm-gdb) layout src
(arm-gdb) layout asm
(arm-gdb) layout next
(arm-gdb) winheight regs 14
(arm-gdb) winheight src -1
(arm-gdb) winheight cmd +4
    
```

```

(arm-gdb) set pagination on
(arm-gdb) help
    
```

```

C-x 1 One Window + Cmd Window
C-x 2 Two Windows + Cmd Window
C-x 2 C-x 2 C-x 2 ... Switch Layouts
C-x o Switch Focus, scroll focus window
with ↑ and ↓.
    
```