

Bare Metal C Programming

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Address Type Casting (1)

```
0x00000000  ldr r2, [pc, #124]      ; 0x00000084
0x00000004  ldr r3, [pc, #124]      ; 0x00000088
0x00000008  ldr r0, [r2]
```

executable

```
0x00000084  00010090
0x00000088  00010094
```

```
0x00008090  20200000
```

```
0x00008000  ldr r2, [pc, #124]      ; 0x00000084
0x00008004  ldr r3, [pc, #124]      ; 0x00000088
0x00008008  ldr r0, [r2]
```

memory

```
0x00008084  00010090
0x00008088  00010094
```

```
0x00010090  20200000 ---> actual address 0x10090
```

<http://www.valvers.com/open-software/raspberry-pi/step02-bare-metal-programming-in-c-pt2/>

Address Type Casting (1)

```
0x00000000  ldr r2, [pc, #128] ; 0x00000088
0x00000004  ldr r3, [pc, #128] ; 0x0000008c
0x00000008  ldr r0, [r2]
```

executable

```
0x00000088  00008094
0x0000008C  00008098

0x00000094  20200000
```

```
0x00008000  ldr r2, [pc, #128] ; 0x00000088
0x00008004  ldr r3, [pc, #128] ; 0x0000008c
0x00008008  ldr r0, [r2]
```

memory

```
0x00008088  00008094
0x0000808C  00008098

0x00008094  20200000
```

<http://www.valvers.com/open-software/raspberry-pi/step02-bare-metal-programming-in-c-pt2/>

Address Type Casting (1)

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References

- [1] http://wiki.osdev.org/ARM_RaspberryPi_Tutorial_C
- [2] <http://blog.bobuhiro11.net/2014/01-13-baremetal.html>
- [3] <http://www.valvers.com/open-software/raspberry-pi/>
- [4]