

Data

read-write vs read-only (const)

initialized vs uninitialized

global (extern) vs local (static)

Sections

Instructions go in .text

Data goes in .data

const data (read-only) goes in .ro_data

Uninitialized data goes in .bss

+ other information about the program

■ **symbols, relocation, debugging, ...**

Symbols

T/t - text

D/d - read-write data

R/r - read-only data

B/b - bss

C - common

lower-case means static/local

LD: Linker Script

MEMORY

```
{  
    ram : ORIGIN = 0x8000,  
          LENGTH = 0x1000  
}
```

SECTIONS

```
{  
    .text : { *(.text*) } > ram  
    .rodata : { *(.rodata*) } > ram  
    .data : { *(.data*) } > ram  
    .bss : { *(.bss*) } > ram  
}
```

Intermission



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