

## 1. Symbols

### a) Main.o:

0	R	const_variables
0	T	main
0	D	R_ODR

### b) Startup.o:

	U	_E_bss
	U	_E_DATA
	U	_E_text
	U	_S_bss
	U	_S_DATA
	U	_stack_top
0	W	Bus_Fault
0	T	Default_Handler
0	W	H_fault_Handler
	U	main
0	W	MM_Fault_Handler
0	W	NMI_Handler
0000000c	T	Reset_Handler
0	W	Usage_Fault_Handler
0	D	vectors

### c) Learn in depth.elf:

20000004	B	_E_bss
20000004	D	_E_DATA
8000184	T	_E_text
20000004	B	_S_bss
20000000	D	_S_DATA
20001004	B	_stack_top
0800001c	W	Bus_Fault
8000180	T	const_variables

0800001c	T	Default_Handler
0800001c	W	H_fault_Handler
080000d8	T	main
0800001c	W	MM_Fault_Handler
0800001c	W	NMI_Handler
20000000	D	R_ODR
8000028	T	Reset_Handler
0800001c	W	Usage_Fault_Handler
8000000	T	vectors
0800001c	W	Usage_Fault_Handler
8000000	T	vectors

## 2. Sections:

Idx	Name	Size	VMA	LMA	File off	Algn
0	.text	000000a8	00000000	00000000	00000034	2**2
		CONTENTS,	ALLOC,	LOAD,	RELOC,	READONLY,
1	.data	00000004	00000000	00000000	000000dc	2**2
		CONTENTS,	ALLOC,	LOAD,	DATA	
2	.bss	00000000	00000000	00000000	000000e0	2**0
		ALLOC				
3	.rodata	00000004	00000000	00000000	000000e0	2**2
		CONTENTS,	ALLOC,	LOAD,	READONLY,	DATA
4	.debug_info	00000152	00000000	00000000	000000e4	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
5	.debug_abbrev	000000e5	00000000	00000000	00000236	2**0
		CONTENTS,	READONLY,	DEBUGGING		
6	.debug_loc	00000038	00000000	00000000	0000031b	2**0
		CONTENTS,	READONLY,	DEBUGGING		
7	.debug_aranges	00000020	00000000	00000000	00000353	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
8	.debug_line	000000a3	00000000	00000000	00000373	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
9	.debug_str	0000010b	00000000	00000000	00000416	2**0
		CONTENTS,	READONLY,	DEBUGGING		
10	.comment	00000012	00000000	00000000	00000521	2**0
		CONTENTS,	READONLY			
11	.ARM.attributes	00000033	00000000	00000000	00000533	2**0
		CONTENTS,	READONLY			
12	.debug_frame	0000002c	00000000	00000000	00000568	2**2
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	

### a) Main.o:

Idx	Name	Size	VMA	LMA	File off	Algn
0	.text	00000050	00000000	00000000	00000034	2**2
		CONTENTS,	ALLOC,	LOAD,	READONLY,	CODE

1	.data	00000000	00000000	00000000	00000084	2**0
		CONTENTS,	ALLOC,	LOAD,	DATA	
2	.bss	00000000	00000000	00000000	00000084	2**0
		ALLOC				
3	.debug_info	0000005c	00000000	00000000	00000084	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
4	.debug_abbrev	00000051	00000000	00000000	000000e0	2**0
		CONTENTS,	READONLY,	DEBUGGING		
5	.debug_loc	0000002c	00000000	00000000	00000131	2**0
		CONTENTS,	READONLY,	DEBUGGING		
6	.debug_aranges	00000020	00000000	00000000	0000015d	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
7	.debug_line	0000003d	00000000	00000000	0000017d	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
8	.debug_str	00000056	00000000	00000000	000001ba	2**0
		CONTENTS,	READONLY,	DEBUGGING		
9	.comment	00000012	00000000	00000000	00000210	2**0
		CONTENTS,	READONLY			
10	.ARM.attributes	00000032	00000000	00000000	00000222	2**0
		CONTENTS,	READONLY			
11	.debug_frame	00000028	00000000	00000000	00000254	2**2
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	

#### b) Startup.o:

Idx	Name	Size	VMA	LMA	File off	Algn
0	.text	000000bc	00000000	00000000	00000034	2**2
		CONTENTS,	ALLOC,	LOAD,	RELOC,	READONLY,
1	.data	00000000	00000000	00000000	000000f0	2**0
		CONTENTS,	ALLOC,	LOAD,	DATA	
2	.bss	00000000	00000000	00000000	000000f0	2**0
		ALLOC				
3	.vectors	0000001c	00000000	00000000	000000f0	2**2
		CONTENTS,	ALLOC,	LOAD,	RELOC,	DATA
4	.debug_info	00000168	00000000	00000000	0000010c	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
5	.debug_abbrev	000000c2	00000000	00000000	00000274	2**0
		CONTENTS,	READONLY,	DEBUGGING		
6	.debug_loc	00000064	00000000	00000000	00000336	2**0
		CONTENTS,	READONLY,	DEBUGGING		
7	.debug_aranges	00000020	00000000	00000000	0000039a	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
8	.debug_line	000000ae	00000000	00000000	000003ba	2**0
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	
9	.debug_str	0000013f	00000000	00000000	00000468	2**0
		CONTENTS,	READONLY,	DEBUGGING		
10	.comment	00000012	00000000	00000000	000005a7	2**0
		CONTENTS,	READONLY			
11	.ARM.attributes	00000033	00000000	00000000	000005b9	2**0
		CONTENTS,	READONLY			
12	.debug_frame	0000004c	00000000	00000000	000005ec	2**2
		CONTENTS,	RELOC,	READONLY,	DEBUGGING	

#### c) Learn in depth.elf:

Idx	Name	Size	VMA	LMA	File off	Algn
0	.text	00000184	08000000	08000000	00008000	2**2
1	.data	00000004	20000000	08000184	00010000	2**2
2	.bss	00001000	20000004	08000188	00010004	2**0
3	.debug_info	000002ba	00000000	00000000	00010004	2**0
4	.debug_abbrev	000001a7	00000000	00000000	000102be	2**0
5	.debug_loc	0000009c	00000000	00000000	00010465	2**0
6	.debug_aranges	00000040	00000000	00000000	00010501	2**0
7	.debug_line	00000151	00000000	00000000	00010541	2**0
8	.debug_str	0000014f	00000000	00000000	00010692	2**0
9	.comment	00000011	00000000	00000000	000107e1	2**0
10	.ARM.attributes	00000033	00000000	00000000	000107f2	2**0
11	.debug_frame	00000078	00000000	00000000	00010828	2**2