

00000000 B7 01 00 00 93 81 F1 FF 37 02 00 00 13 02 F2 FF	?...???	7.....?
00000010 17 81 00 00 13 01 01 7F 17 05 00 00 13 05 C5 0D	.?.....?.	.
00000020 73 10 55 30 73 10 20 34 97 00 00 00 E7 80 40 17	s.U0s. 4?...?@.	s.U0s. 4?...?@.
00000030 17 04 00 00 13 04 44 1C 03 25 04 00 13 04 44 00	.....D.%....D.	.....?%....D.
00000040 E7 00 05 00 6F F0 5F FF 97 00 00 00 E7 80 C0 02	?...o?_ ?...??.	?...o?_ ?...??.
00000050 17 03 00 00 67 00 83 00 6F 00 00 00 13 05 00 00	....g.?o.....	....g.?o.....
00000060 93 05 00 00 97 00 00 E7 80 00 01 17 03 00 00	?...?...?.....	?...?...?.....
00000070 67 00 C3 FE 13 01 01 FF 23 26 11 00 B7 27 04 00	g.??... #&..?'.	g.??... #&..?'.
00000080 13 07 A0 00 23 82 E7 00 13 07 E0 06 23 82 E7 00	..?.#??...?.#??.	..?.#??...?.#??.
00000090 13 07 F0 06 23 82 E7 00 13 07 10 03 23 82 E7 00	..?.#??...?#??.	..?.#??...?#??.
000000A0 13 07 20 03 23 82 E7 00 13 07 30 03 23 82 E7 00	... .#??...0.#??.	... .#??...0.#??.
000000B0 13 07 60 02 23 82 E7 00 83 C5 47 02 37 05 00 00	... .#??...?G.7...	... .#??...?G.7...
000000C0 13 05 15 1B 97 00 02 00 E7 80 40 54 37 05 00 00	....?...?@T7...	....?...?@T7...
000000D0 13 05 F5 1C 97 00 02 00 E7 80 40 53 93 05 70 05	..?...?@S?.p.	..?...?@S?.p.
000000E0 37 05 00 00 13 05 05 1A 97 00 02 00 E7 80 00 52	7.....?...?R	7.....?...?R
000000F0 6F 00 00 00 13 01 01 FC 23 20 11 00 23 22 51 00	o.....?# ..#"Q.	o.....?# ..#"Q.
00000100 23 24 61 00 23 26 71 00 23 28 A1 00 23 2A B1 00	#\$a.#&q. #(?.#*?.	#\$a.#&q. #(?.#*?.
00000110 23 2C C1 00 23 2E D1 00 23 20 E1 02 23 22 F1 02	#,?..#.?# ?.#?".	#,?..#.?# ?.#?".
00000120 23 24 01 03 23 26 11 03 23 28 C1 03 23 2A D1 03	#\$..#&..#(?.#*?.	#\$..#&..#(?.#*?.
00000130 23 2C E1 03 23 2E F1 03 73 25 20 34 F3 25 10 34	#,?..#.?% 4?%.4	#,?..#.?% 4?%.4
00000140 37 03 00 00 13 03 83 19 E7 00 03 00 73 10 15 34	7.....?...?...s..4	7.....?...?...s..4
00000150 83 20 01 00 83 22 41 00 03 23 81 00 83 23 C1 00	? ..?"A..#?..#?.	? ..?"A..#?..#?.
00000160 03 25 01 01 83 25 41 01 03 26 81 01 83 26 C1 01	.%..?%A..&?..?&?.	.%..?%A..&?..?&?.
00000170 03 27 01 02 83 27 41 02 03 28 81 02 83 28 C1 02	.'..?'A..(?.?)(?.	.'..?'A..(?.?)(?.
00000180 03 2E 01 03 83 2E 41 03 03 2F 81 03 83 2F C1 03	....?A../?..?/?.	....?A../?..?/?.
00000190 13 01 01 04 73 00 20 30 6F 00 00 00 67 80 00 00	....s. 0o...g..	....s. 0o...g..
000001A0 48 65 6C 6C 6F 20 43 4F 52 45 30 21 20 25 64 0A	Hello CORE0! %d.	Hello CORE0! %d.
000001B0 00 43 48 4B 5F 55 41 52 54 30 5F 4F 43 43 55 50	.CHK_UART0_OCCUP	.CHK_UART0_OCCUP
000001C0 59 5F 42 59 28 42 49 54 5F 30 30 29 3D 25 78 0A	Y_BY(BIT_00)=%x.	Y_BY(BIT_00)=%x.
000001D0 00 00 00 00 17 85 00 00 13 05 C5 E2 97 85 00 00?...?????.?...?????.
000001E0 93 85 45 E6 B3 85 A5 40 23 A5 00 23 22 05 00	??E????@# ?.#".	??E????@# ?.#".
000001F0 67 80 00 00 D4 01 00 00 48 00 00 00 00 00 00 00 00	g. ?...H.	g. ?...H.
00000200 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000210 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000220 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000230 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000240 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000250 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000260 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000270 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000280 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
00000290 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
000002A0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....
000002B0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....	.....

```
/*
define section .APP_END {udata8 0x55, udata8 0x5A, , udata8 0xA5, udata8 0xAA};
place in FLASH {last section .APP_END};
keep {section .APP_END};
*/
```

```
define section .APP_END {udata8 0x55, udata8 0x5A, , udata8 0xA5, udata8 0xAA};
place in FLASH {last section .APP_END};
keep {section .APP_END};
```

Sections by address:

Range	Symbol or [section] Name	Size	Al	Init	Ac	Object File
00000000-00000073	_start	116	4	Code	RX	SEGGER_RV32_crt0.o
00000074-000000f3	main	128	4	Code	RX	main_c0.o
000000f4-00000197	trap_entry	164	4	Code	RX	SEGGER_RV32_crtinit_rv32ima.o
00000198-0000019b	handle_trap	4	4	Code	RX	SEGGER_RV32_crtinit_rv32ima.o
0000019c-0000019f	_init	4	4	Code	RX	SEGGER_RV32_crtinit_rv32ima.o
000001a0-000001b0	[.rodata.merged.str1.1]	17	1	Cnst	RO	[Linker created]
000001b1-000001d0	[.rodata.merged.str1.1]	32	1	Cnst	RO	[Linker created]
000001d1-000001d4	[.APP_END]	4	1	Cnst	RO	[Linker created]
000001d5-000001d7	(UNUSED .=.+3)	3	-	-	-	-
000001d8-000001f7	__SEGGER_init_heap	32	4	Code	RX	SEGGER_RV32_crtinit_rv32ima.o
000001f8-000001ff	__SEGGER_init_table	8	4	Cnst	RO	[Linker created]

not in the end of FLASH segment

Symbol name	Value	Access	Size	Align	Type	Bd	Object File
__FLASH_segment_end__	0x00001000			----	Gb		[Linker created]
__FLASH_segment_size__	0x00001000			----	Gb		[Linker created]
__FLASH_segment_start__	0x00000000			----	Gb		[Linker created]
__FLASH_segment_used_end__	0x00000200			----	Gb		[Linker created]
__FLASH_segment_used_size__	0x00000200			----	Gb		[Linker created]

00000000	B7	01	00	00	93	81	F1	FF	37	02	00	00	13	02	F2	FF	?...???	7.....?
00000010	17	81	00	00	13	01	01	7F	17	05	00	00	13	05	C5	0D	.?.....?	.
00000020	73	10	55	30	73	10	20	34	97	00	00	00	E7	80	40	17	s.U0s.	4?...?@.
00000030	17	04	00	00	13	04	84	1C	03	25	04	00	13	04	44	00	.....?.	%....D.
00000040	E7	00	05	00	6F	F0	5F	FF	97	00	00	00	E7	80	C0	02	?...o?_	?...??.
00000050	17	03	00	00	67	00	83	00	6F	00	00	00	13	05	00	00	....g.?o.....	.
00000060	93	05	00	00	97	00	00	00	E7	80	00	01	17	03	00	00	?...?...?	.
00000070	67	00	C3	FE	13	01	01	FF	23	26	11	00	B7	27	04	00	g.???	#&..?.
00000080	13	07	A0	00	23	82	E7	00	13	07	E0	06	23	82	E7	00	..?.#???	...#??...#??.
00000090	13	07	F0	06	23	82	E7	00	13	07	10	03	23	82	E7	00	..?.#???	...#??...#??.
000000A0	13	07	20	03	23	82	E7	00	13	07	30	03	23	82	E7	00	..`.#???	...#??...#??.
000000B0	13	07	60	02	23	82	E7	00	83	C5	47	02	37	05	00	00	..`.#???	...#??...#??.
000000C0	13	05	15	1B	97	00	02	00	E7	80	40	54	37	05	00	00	...?...?@T7...	....?...?@S?..p.
000000D0	13	05	F5	1C	97	00	02	00	E7	80	40	53	93	05	70	05	7.....?...?.	7.....?...?.
000000E0	37	05	00	00	13	05	05	1A	97	00	02	00	E7	80	00	52	o.....?#	..#"Q.
000000F0	6F	00	00	00	13	01	01	FC	23	20	11	00	23	22	51	00	#\$a.#&q. #(?.#*?.	.
00000100	23	24	61	00	23	26	71	00	23	28	A1	00	23	2A	B1	00	#,?.#.?#	..#?"#?
00000110	23	2C	C1	00	23	2E	D1	00	23	20	E1	02	23	22	F1	02	#\$..#&..#(?.#*?.	#,?.#.?#
00000120	23	24	01	03	23	26	11	03	23	28	C1	03	23	2A	D1	03	#\$..#&..#(?.#*?.	#,?.#.?#
00000130	23	2C	E1	03	23	2E	F1	03	73	25	34	F3	25	10	34	7.....?...?.	7.....?...?.	
00000140	37	03	00	00	13	03	83	19	E7	00	03	00	73	10	15	34	? ..?"A..#?..?#?.	..%?A..&?..?&?.
00000150	83	20	01	00	83	22	41	00	03	23	81	00	83	23	C1	00	....?A..#?..?#?.	....?A..#?..?#?.
00000160	03	25	01	01	83	25	41	01	03	26	81	01	83	26	C1	01	....?A..#?..?#?.	....?A..#?..?#?.
00000170	03	27	01	02	83	27	41	02	03	28	81	02	83	28	C1	02	.'..?A..#?..?#?.	....?A..#?..?#?.
00000180	03	2E	01	03	83	2E	41	03	03	2F	81	03	83	2F	C1	03	....s..0...g..	.
00000190	13	01	01	04	73	00	20	30	6F	00	00	00	67	80	00	00	Hello CORE0! %d.	.
000001A0	48	65	6C	6C	6F	20	43	4F	52	45	30	21	20	25	64	0A	.CHK_UART0_OCCUP	.
000001B0	00	43	48	4B	5F	55	41	52	54	30	5F	4F	43	45	55	50	Y_BY(BIT_00)=%x.	.
000001C0	59	5F	42	59	28	42	49	54	5F	30	30	29	3D	25	78	0A	UZ??...?...?.	.
000001D0	00	55	5A	5A	AA	00	00	00	17	85	00	00	13	05	85	E2	??..?..?#?@ # ?.	#"..g ..?..H..
000001E0	97	85	00	00	93	85	05	E6	B3	85	A5	40	23	20	A5	00	.....	.....
000001F0	23	22	05	00	67	80	00	00	D8	01	00	00	48	00	00	00	00000200	.....
00000200	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000210	.....
00000210	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000220	.....
00000220	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000230	.....
00000230	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000240	.....
00000240	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000250	.....
00000250	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000260	.....
00000260	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000270	.....
00000270	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00000280	.....
00000280	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	.....

Due to code size is not fixed when I modify my code, I hope section .APP_END will always in the end of FLASH segment used.