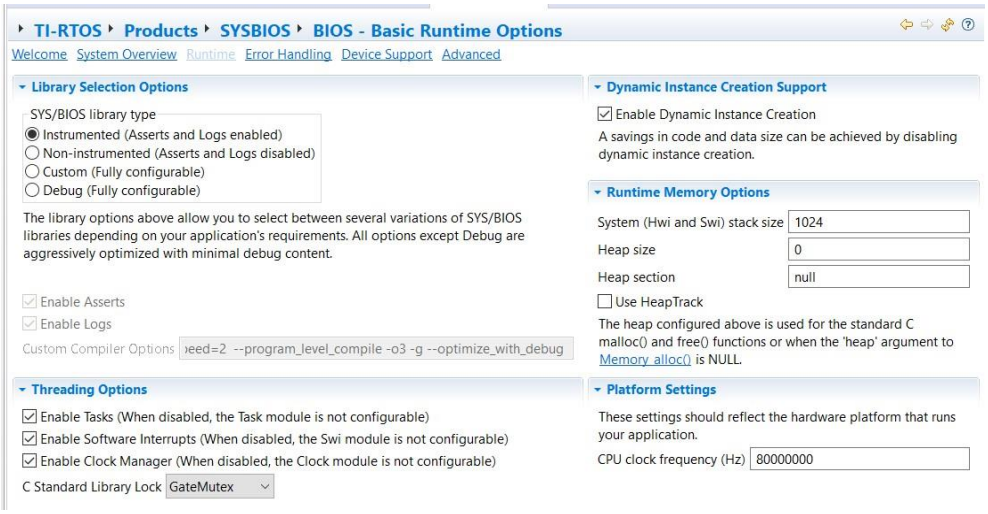
Saul Mendoza

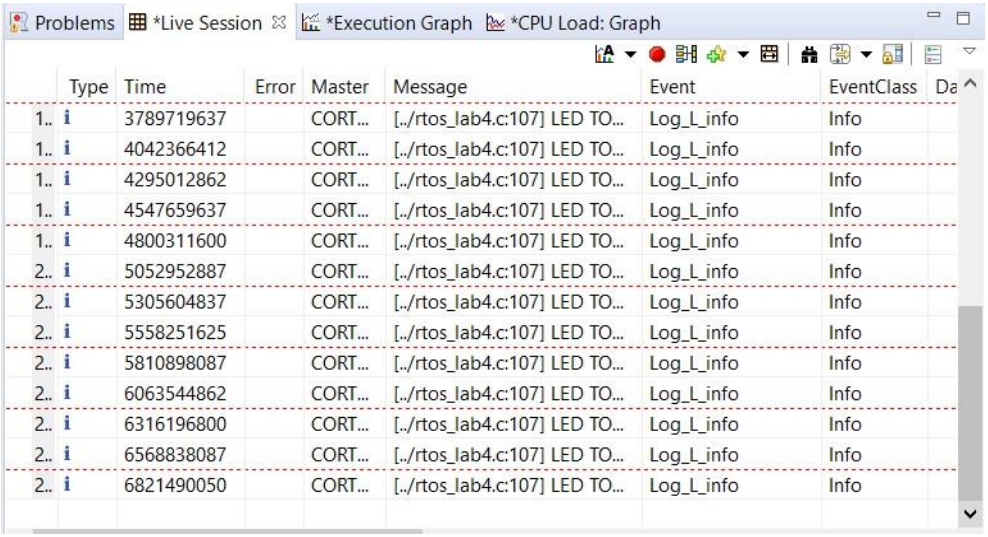
GitHub: https://github.com/mendos1/Submission_Link/tree/master/TivaC_RTOS_Labs

Lab 2:

The purpose of this lab is to just implement the introduction code to blink an LED using RTOS.

Lab 4:





	Type	Time	Error	Master	Message	Event	EventClass	Da
1..	i	3789719637		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
1..	i	4042366412		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
1..	i	4295012862		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
1..	i	4547659637		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
1..	i	4800311600		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	5052952887		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	5305604837		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	5558251625		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	5810898087		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	6063544862		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	6316196800		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	6568838087		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	
2..	i	6821490050		CORT...	[../rtos_lab4.c:107] LED TO...	Log_L_info	Info	

Lab 5:

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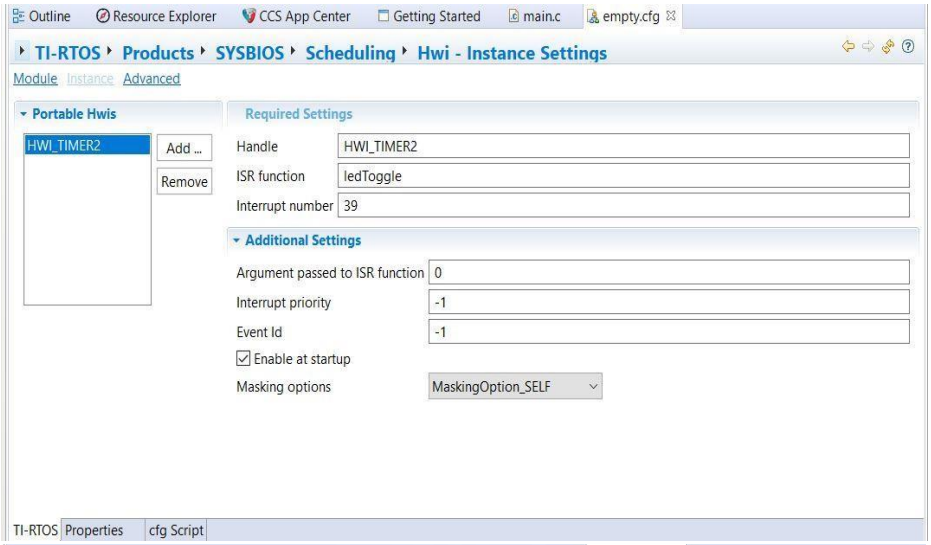

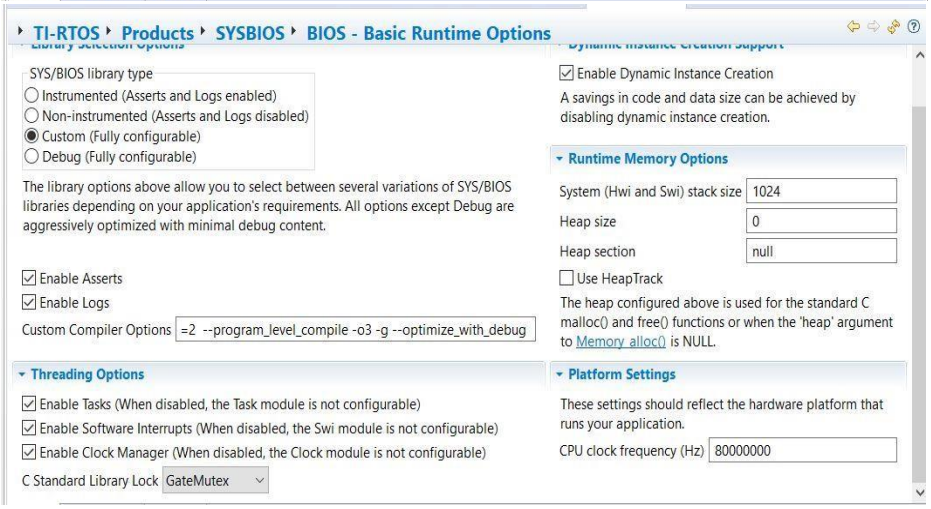

6:

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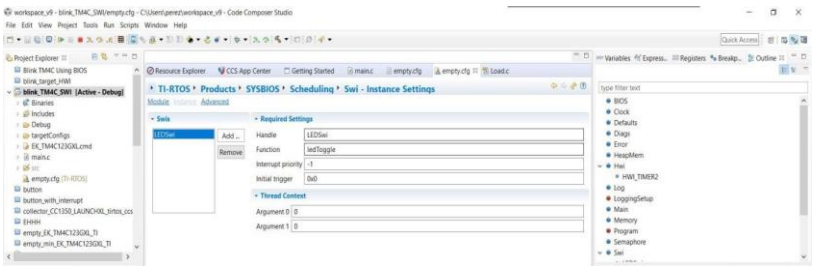

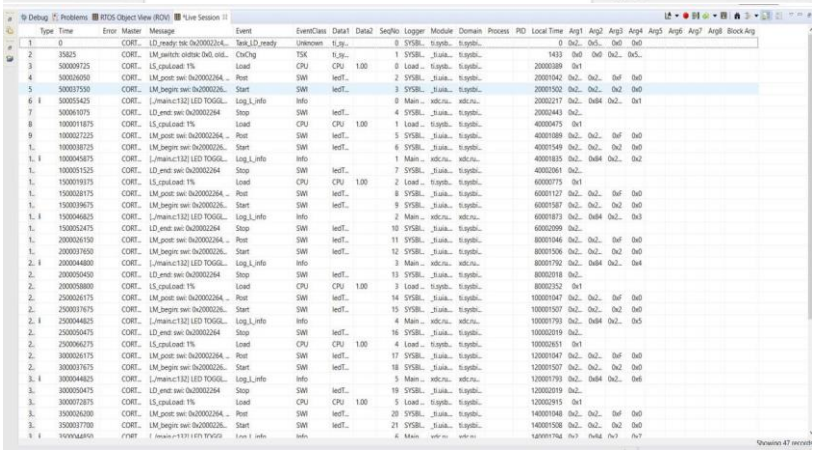

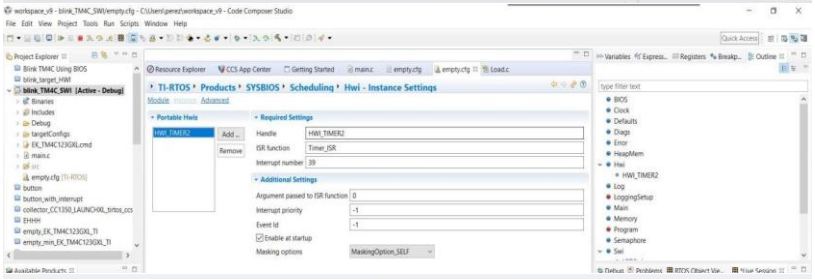

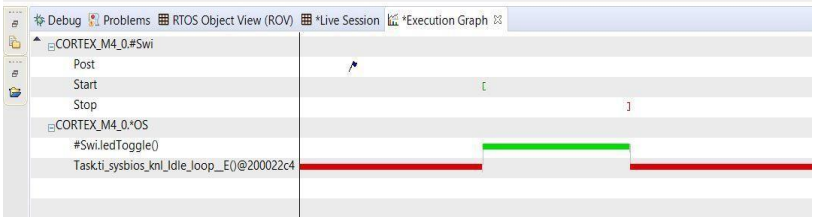

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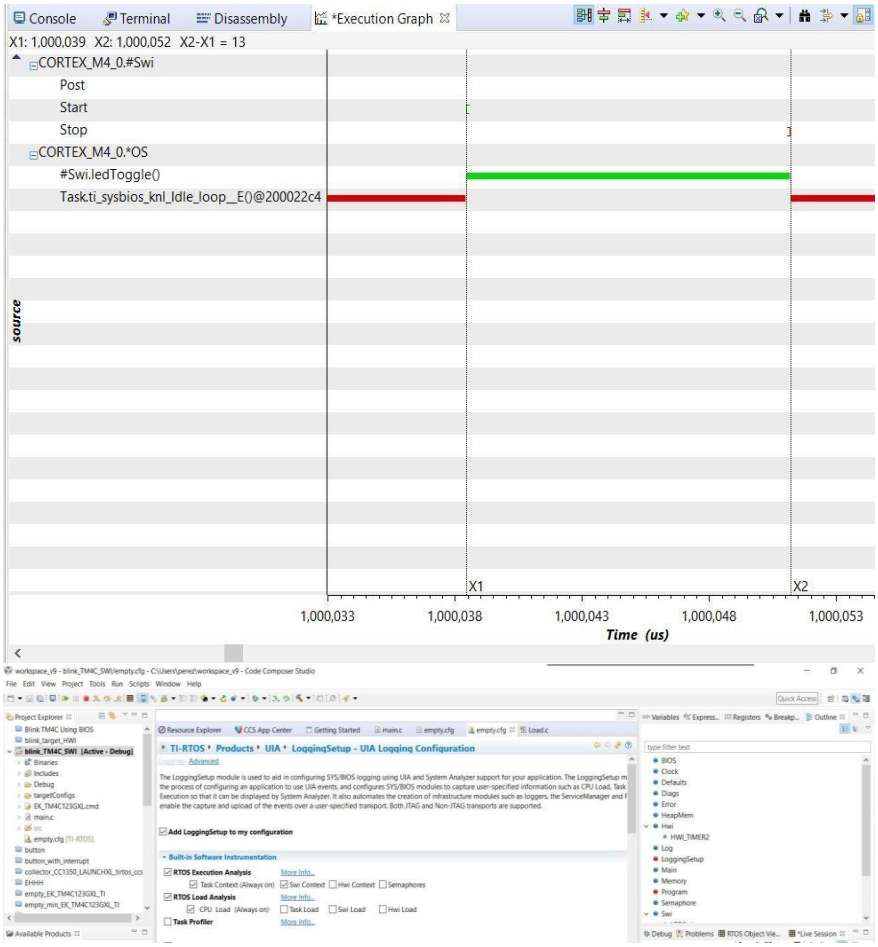

7:

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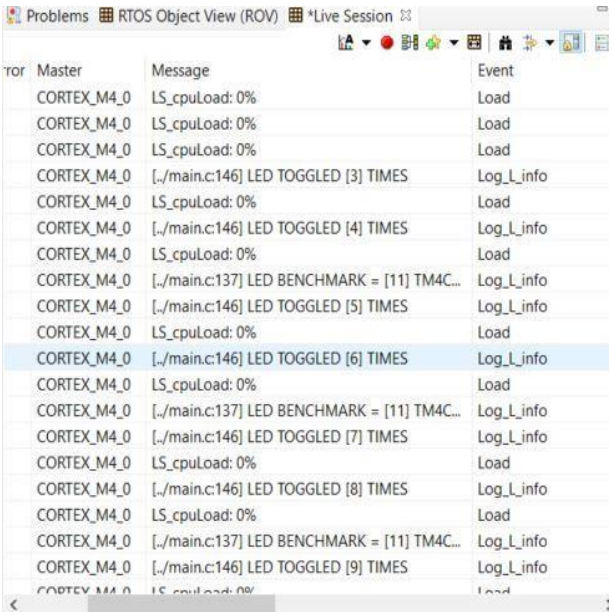

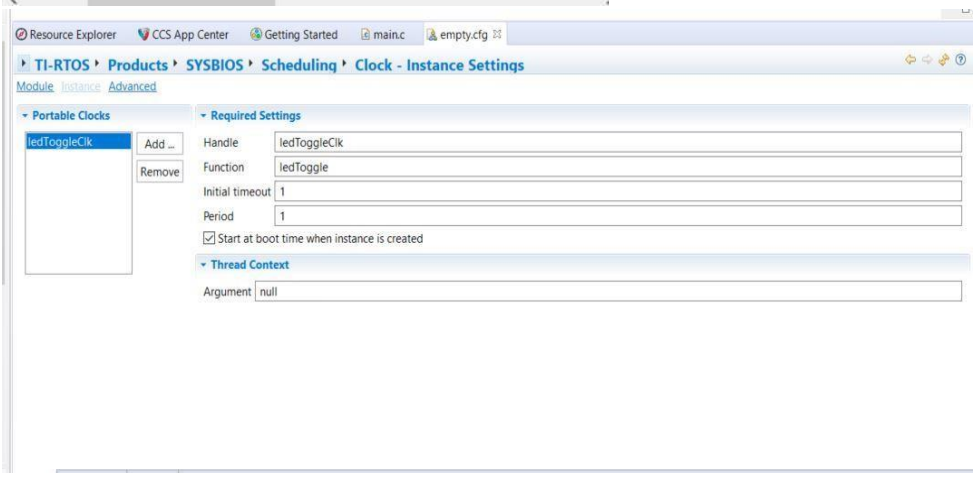

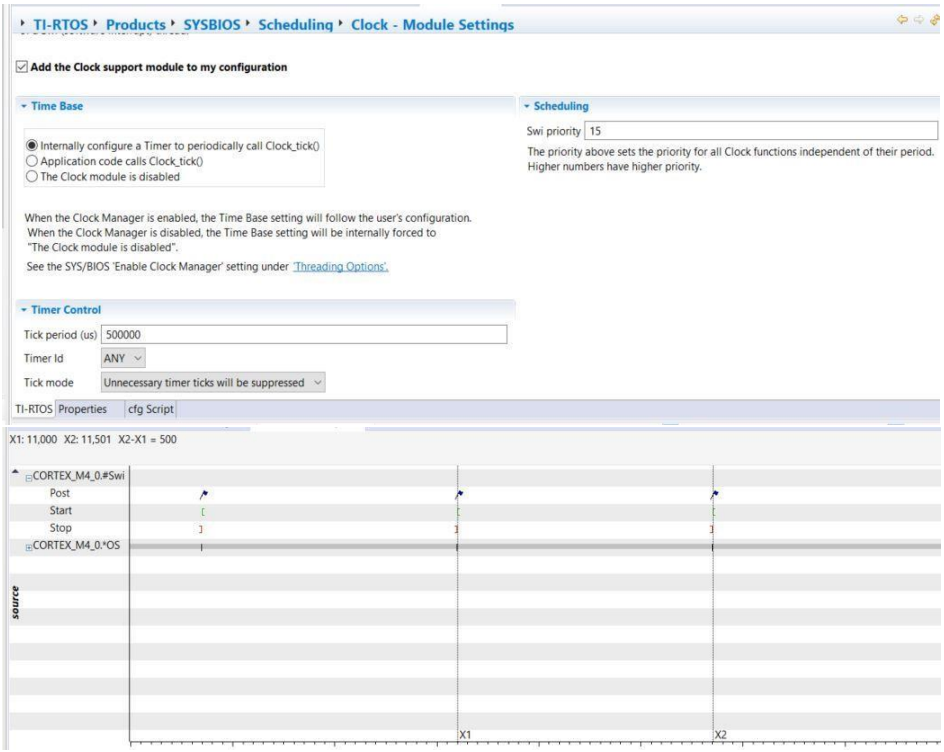
TI-RTOS ▸ Products ▸ SYSBIOS ▸ Scheduling ▸ Clock - Module Settings
Add the Clock support module to my configuration
Time Base
Internally configure a Timer to periodically call Clock_tick()
Application code calls Clock_tick()
The Clock module is disabled
When the Clock Manager is enabled, the Time Base setting will follow the user's configuration.
When the Clock Manager is disabled, the Time Base setting will be internally forced to
"The Clock module is disabled".
See the SYS/BIOS 'Enable Clock Manager' setting under 'Threading Options'.
Scheduling
Swi priority 15
The priority above sets the priority for all Clock functions independent of their period.
Higher numbers have higher priority.
Timer Control
Tick period (us) 500000
Timer Id ANY
Tick mode Unnecessary timer ticks will be suppressed
TI-RTOS Properties cfg Script
X1: 11,000 X2: 11,501 X2-X1 = 500
CORTEX_M4_0.#Swi
Post
Start
Stop
CORTEX_M4_0.*OS
source
X1
X2

8:

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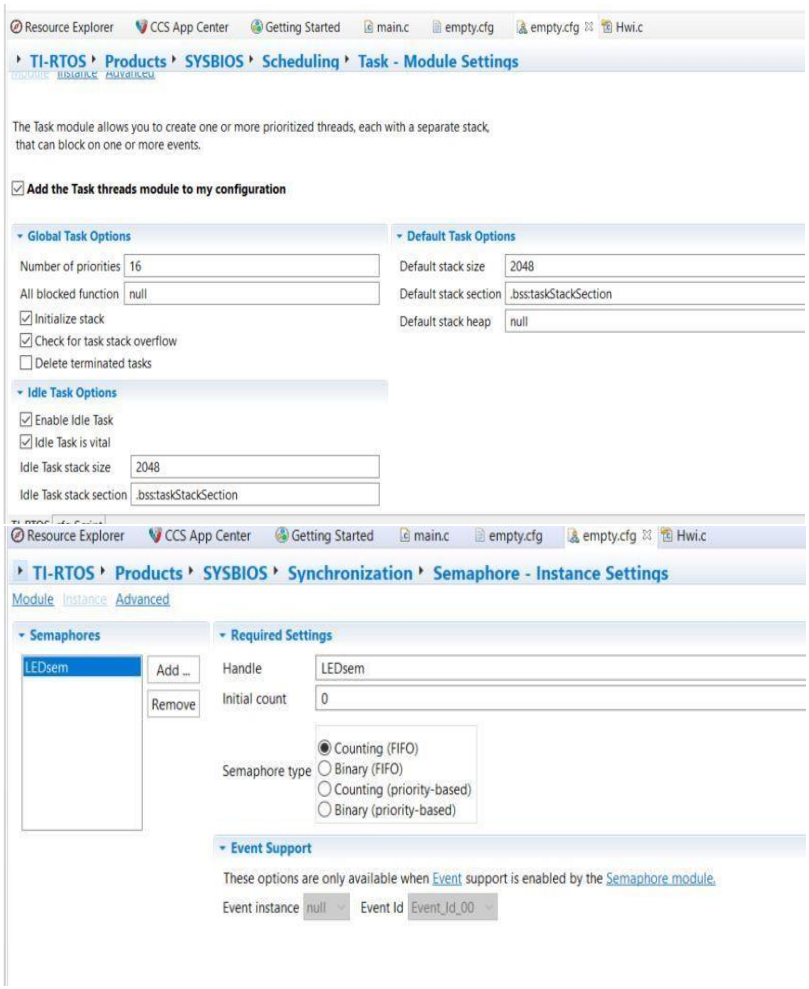

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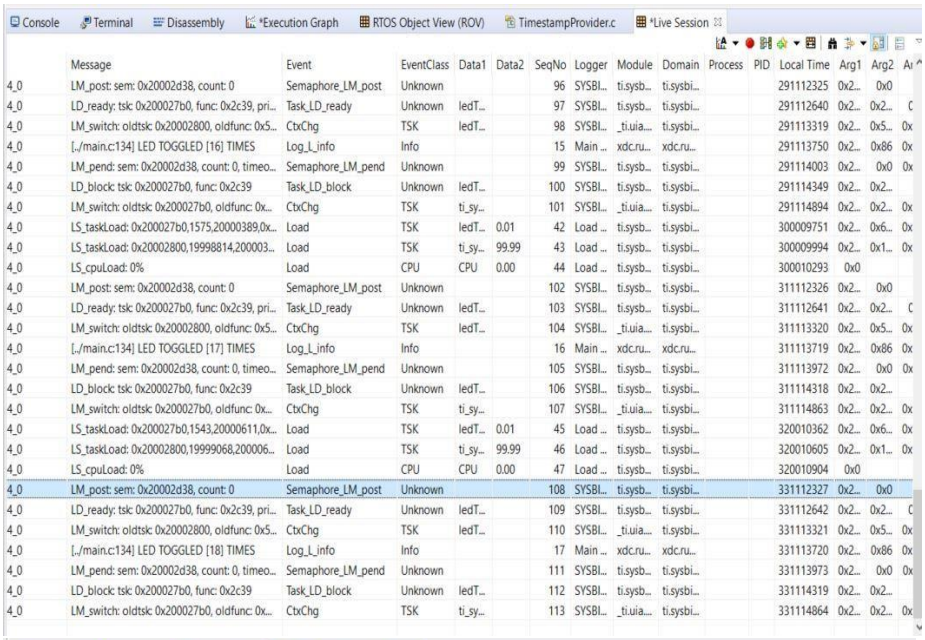
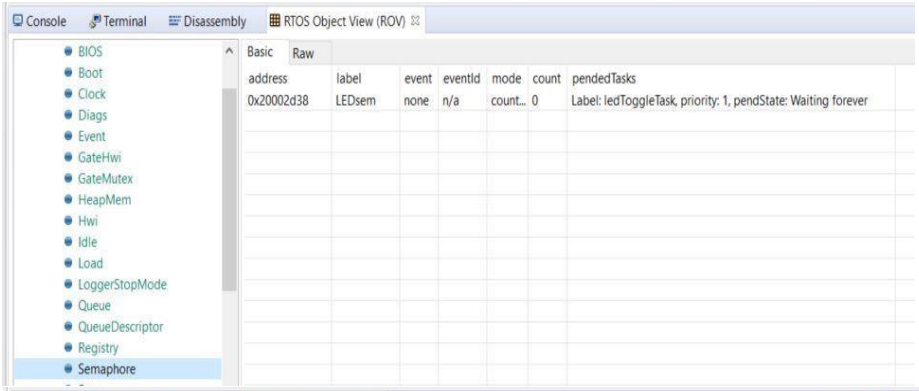
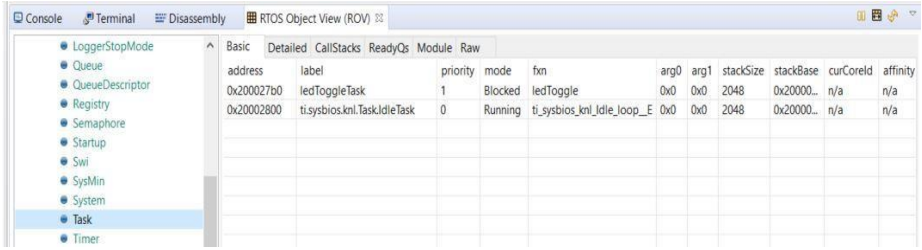
GitHub: https://github.com/mendos1/Submission_Link/tree/master/TivaC_RTOS_Labs



	Message	Event	EventClass	Data1	Data2	SeqNo	Logger	Module	Domain	Process	PID	Local Time	Arg1	Arg2
4_0	LM_post: sem: 0x20002d38, count: 0	Semaphore_LM_post	Unknown			96	SYSBI...	ti.sysb...	ti.sysbi...			291112325	0x2...	0x0
4_0	LD_ready: tsk: 0x200027b0, func: 0x2c39, pri...	Task_LD_ready	Unknown	ledT...		97	SYSBI...	ti.sysb...	ti.sysbi...			291112640	0x2...	0x2...
4_0	LM_switch: oldtsk: 0x20002800, oldfunc: 0x5...	CtxChg	TSK	ledT...		98	SYSBI...	_ti.uia...	ti.sysbi...			291113319	0x2...	0x5...
4_0	[../main.c:134] LED TOGGLED [16] TIMES	Log_L_info	Info			15	Main ...	xdc.ru...	xdc.ru...			291113750	0x2...	0x86
4_0	LM_pend: sem: 0x20002d38, count: 0, timeo...	Semaphore_LM_pend	Unknown			99	SYSBI...	ti.sysb...	ti.sysbi...			291114003	0x2...	0x0
4_0	LD_block: tsk: 0x200027b0, func: 0x2c39	Task_LD_block	Unknown	ledT...		100	SYSBI...	ti.sysb...	ti.sysbi...			291114349	0x2...	0x2...
4_0	LM_switch: oldtsk: 0x200027b0, oldfunc: 0x...	CtxChg	TSK	ti_sy...		101	SYSBI...	_ti.uia...	ti.sysbi...			291114894	0x2...	0x2...
4_0	LS_taskLoad: 0x200027b0,1575,20000389,0x...	Load	TSK	ledT...	0.01	42	Load ...	ti.sysb...	ti.sysbi...			300009751	0x2...	0x6...
4_0	LS_taskLoad: 0x20002800,19998814,200003...	Load	TSK	ti_sy...	99.99	43	Load ...	ti.sysb...	ti.sysbi...			300009994	0x2...	0x1...
4_0	LS_cpuLoad: 0%	Load	CPU	CPU	0.00	44	Load ...	ti.sysb...	ti.sysbi...			300010293	0x0	
4_0	LM_post: sem: 0x20002d38, count: 0	Semaphore_LM_post	Unknown			102	SYSBI...	ti.sysb...	ti.sysbi...			311112326	0x2...	0x0
4_0	LD_ready: tsk: 0x200027b0, func: 0x2c39, pri...	Task_LD_ready	Unknown	ledT...		103	SYSBI...	ti.sysb...	ti.sysbi...			311112641	0x2...	0x2...
4_0	LM_switch: oldtsk: 0x20002800, oldfunc: 0x5...	CtxChg	TSK	ledT...		104	SYSBI...	_ti.uia...	ti.sysbi...			311113320	0x2...	0x5...
4_0	[../main.c:134] LED TOGGLED [17] TIMES	Log_L_info	Info			16	Main ...	xdc.ru...	xdc.ru...			311113719	0x2...	0x86
4_0	LM_pend: sem: 0x20002d38, count: 0, timeo...	Semaphore_LM_pend	Unknown			105	SYSBI...	ti.sysb...	ti.sysbi...			311113972	0x2...	0x0
4_0	LD_block: tsk: 0x200027b0, func: 0x2c39	Task_LD_block	Unknown	ledT...		106	SYSBI...	ti.sysb...	ti.sysbi...			311114318	0x2...	0x2...
4_0	LM_switch: oldtsk: 0x200027b0, oldfunc: 0x...	CtxChg	TSK	ti_sy...		107	SYSBI...	_ti.uia...	ti.sysbi...			311114863	0x2...	0x2...
4_0	LS_taskLoad: 0x200027b0,1543,20000611,0x...	Load	TSK	ledT...	0.01	45	Load ...	ti.sysb...	ti.sysbi...			320010362	0x2...	0x6...
4_0	LS_taskLoad: 0x20002800,19999068,200006...	Load	TSK	ti_sy...	99.99	46	Load ...	ti.sysb...	ti.sysbi...			320010605	0x2...	0x1...
4_0	LS_cpuLoad: 0%	Load	CPU	CPU	0.00	47	Load ...	ti.sysb...	ti.sysbi...			320010904	0x0	
4_0	LM_post: sem: 0x20002d38, count: 0	Semaphore_LM_post	Unknown			108	SYSBI...	ti.sysb...	ti.sysbi...			331112327	0x2...	0x0
4_0	LD_ready: tsk: 0x200027b0, func: 0x2c39, pri...	Task_LD_ready	Unknown	ledT...		109	SYSBI...	ti.sysb...	ti.sysbi...			331112642	0x2...	0x2...
4_0	LM_switch: oldtsk: 0x20002800, oldfunc: 0x5...	CtxChg	TSK	ledT...		110	SYSBI...	_ti.uia...	ti.sysbi...			331113321	0x2...	0x5...
4_0	[../main.c:134] LED TOGGLED [18] TIMES	Log_L_info	Info			17	Main ...	xdc.ru...	xdc.ru...			331113720	0x2...	0x86
4_0	LM_pend: sem: 0x20002d38, count: 0, timeo...	Semaphore_LM_pend	Unknown			111	SYSBI...	ti.sysb...	ti.sysbi...			331113973	0x2...	0x0
4_0	LD_block: tsk: 0x200027b0, func: 0x2c39	Task_LD_block	Unknown	ledT...		112	SYSBI...	ti.sysb...	ti.sysbi...			331114319	0x2...	0x2...
4_0	LM_switch: oldtsk: 0x200027b0, oldfunc: 0x...	CtxChg	TSK	ti_sy...		113	SYSBI...	_ti.uia...	ti.sysbi...			331114864	0x2...	0x2...



address	label	event	eventId	mode	count	pendedTasks
0x20002d38	LEDsem	none	n/a	count...	0	Label: ledToggleTask, priority: 1, pendState: Waiting forever



address	label	priority	mode	fxn	arg0	arg1	stackSize	stackBase	curCoreId	affinity
0x200027b0	ledToggleTask	1	Blocked	ledToggle	0x0	0x0	2048	0x20000...	n/a	n/a
0x20002800	ti.sysbios.knl.Task.IdleTask	0	Running	ti_sysbios_knl_Idle_loop__E	0x0	0x0	2048	0x20000...	n/a	n/a

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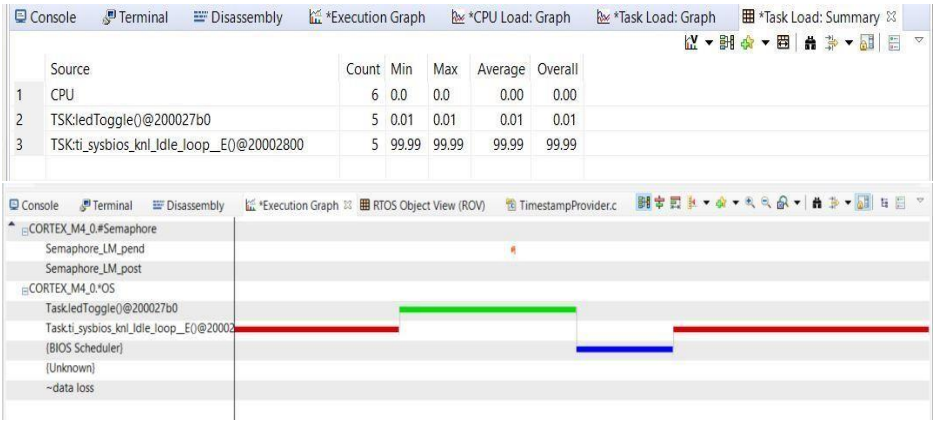

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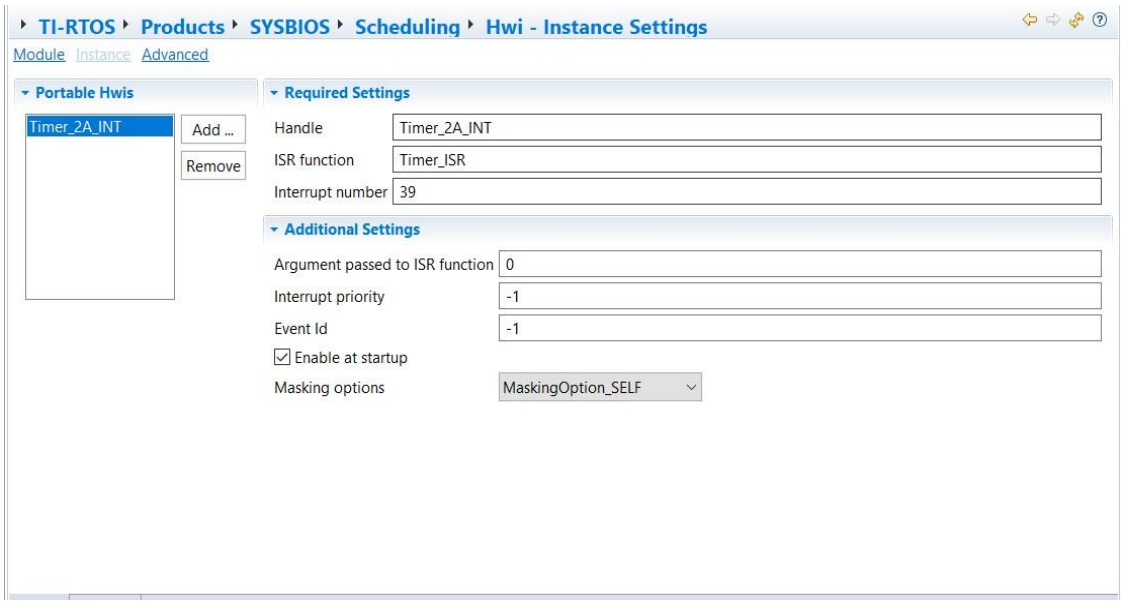
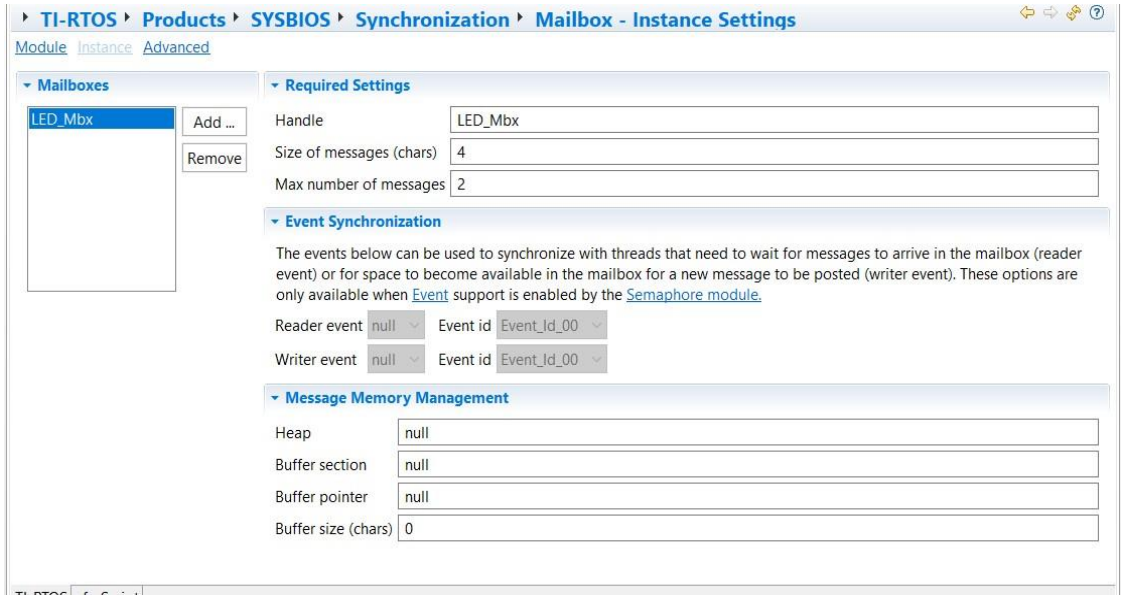
Lab 9:

Part A & B





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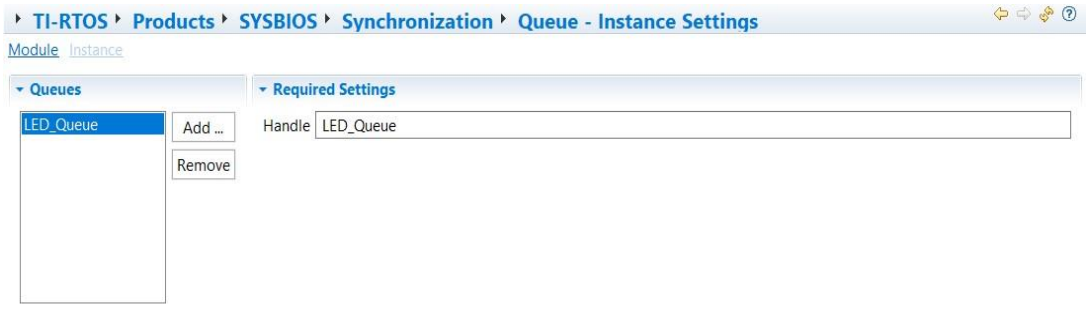

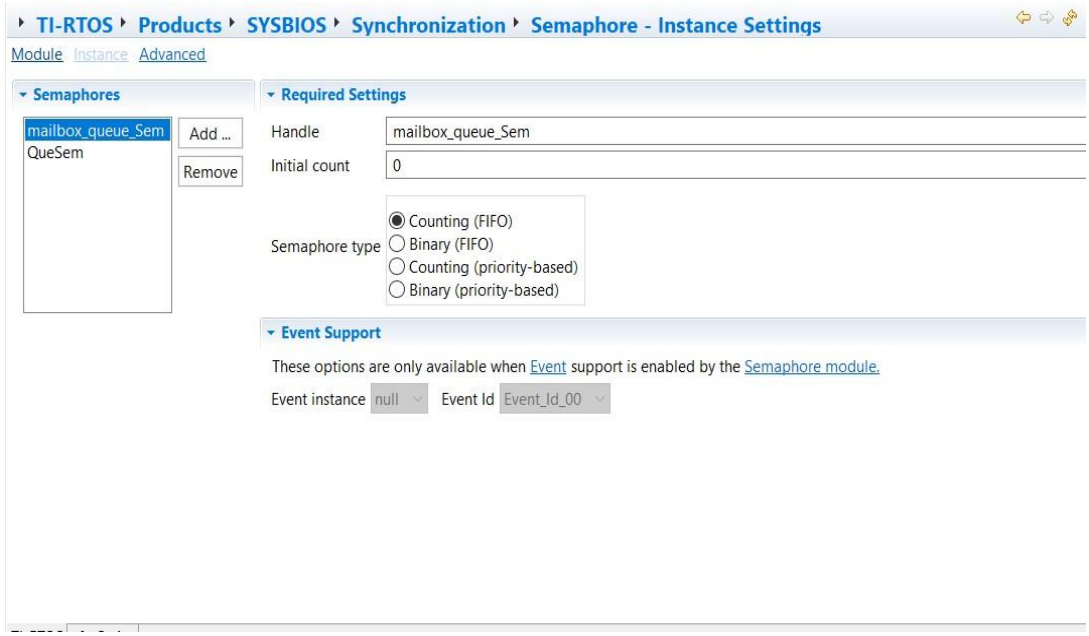

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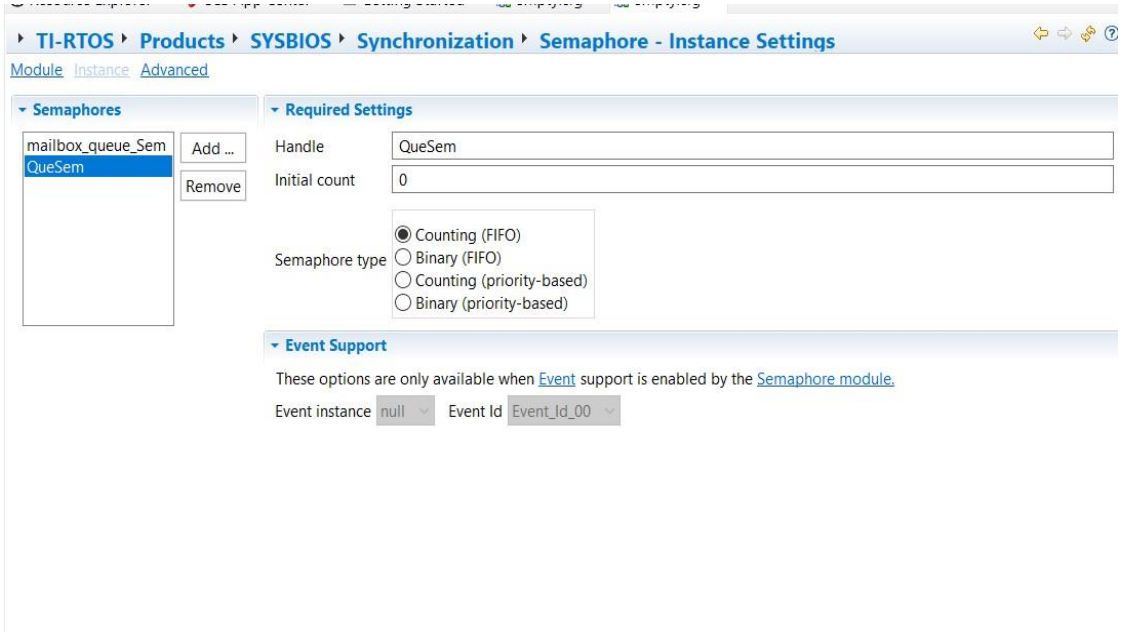

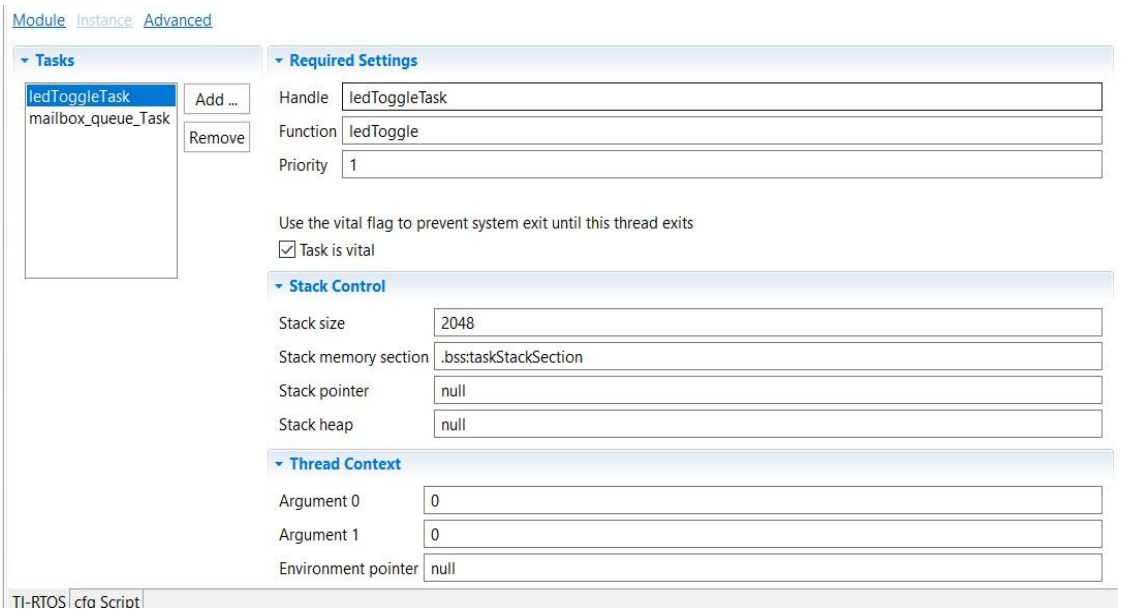

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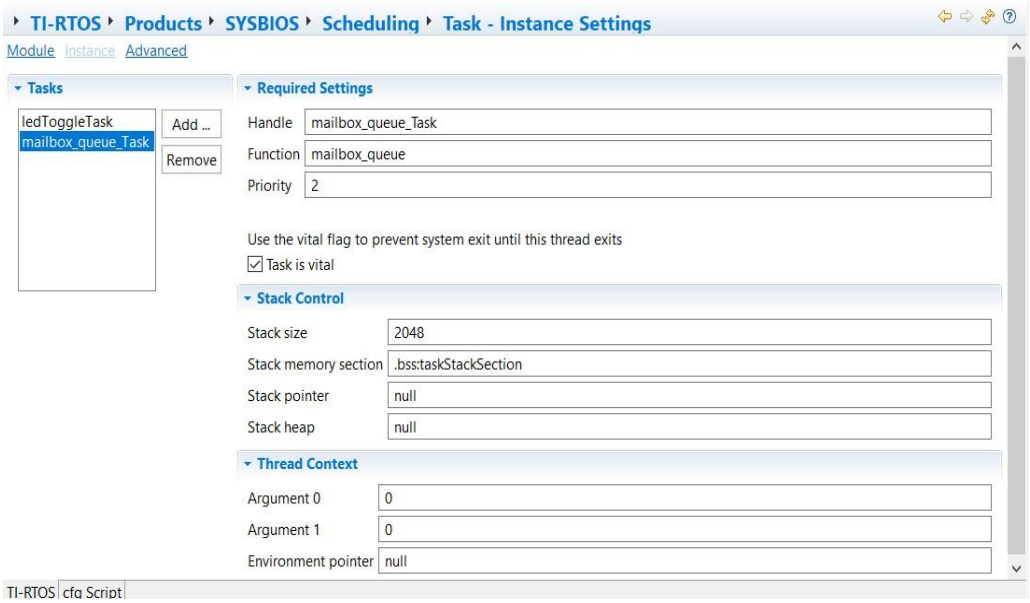

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Lab 10: