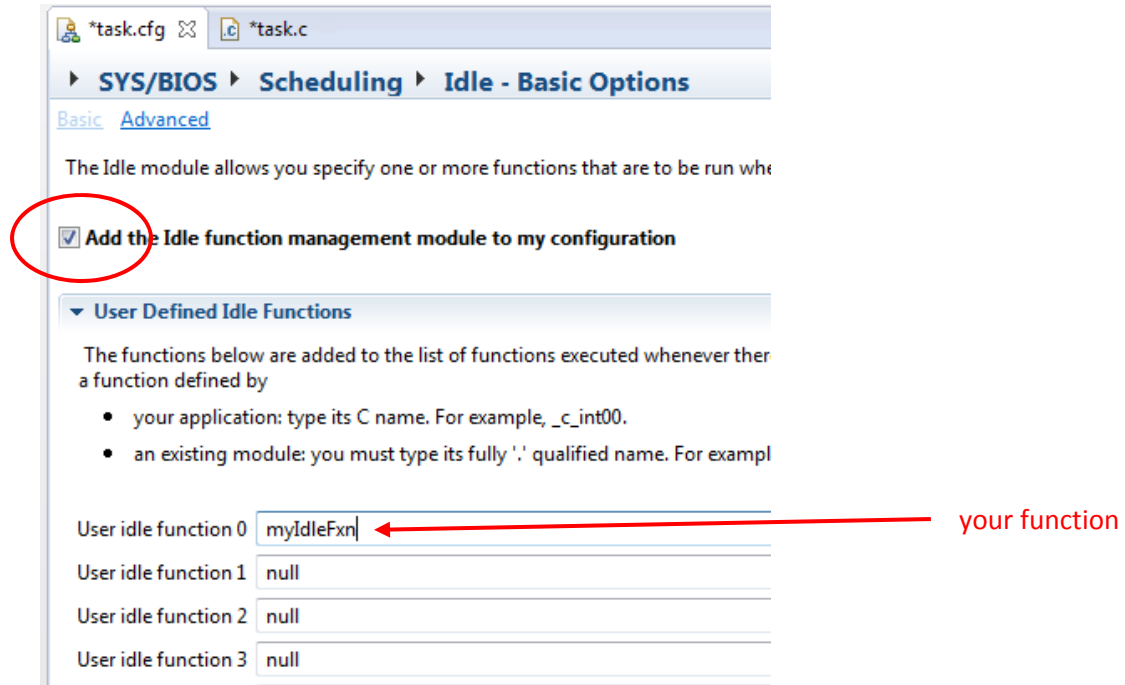


Add Idle Thread to Task Example

DNR 22Apr2015



SYS/BIOS Scheduling Idle - Basic Options

Basic Advanced

The Idle module allows you specify one or more functions that are to be run when the processor is idle.

☒ Add the Idle function management module to my configuration

User Defined Idle Functions

The functions below are added to the list of functions executed whenever there is a function defined by

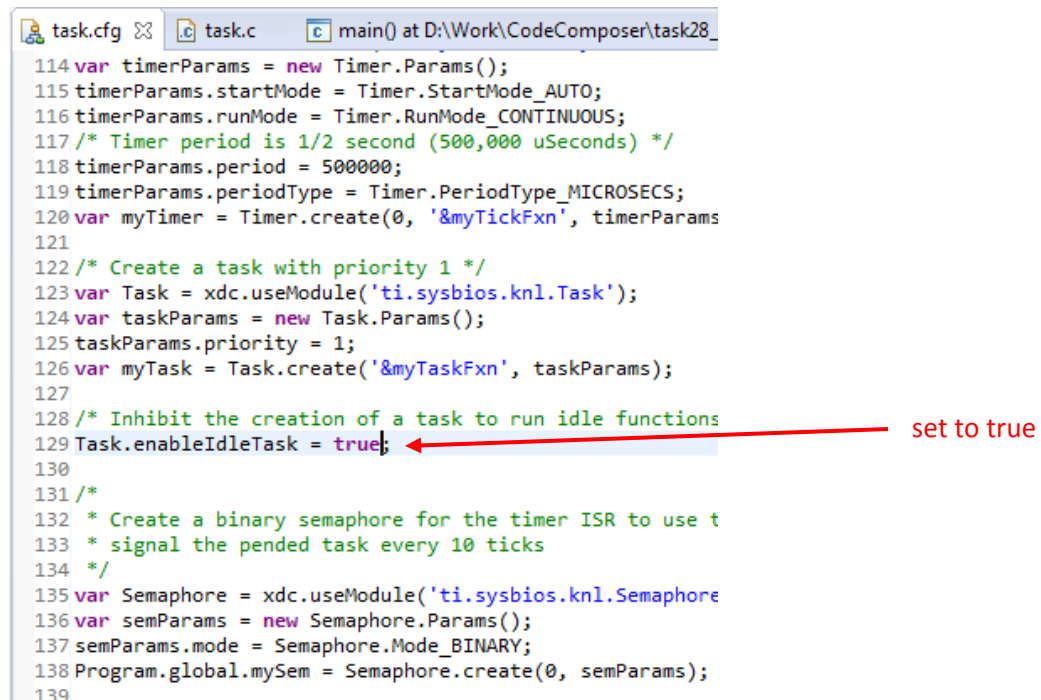
- your application: type its C name. For example, _c_int00.
- an existing module: you must type its fully '.' qualified name. For example, .myModule.myFunction.

User idle function 0 myIdleFxn ← your function

User idle function 1 null

User idle function 2 null

User idle function 3 null



```
task.cfg task.c main() at D:\Work\CodeComposer\task28_
114 var timerParams = new Timer.Params();
115 timerParams.startMode = Timer.StartMode_AUTO;
116 timerParams.runMode = Timer.RunMode_CONTINUOUS;
117 /* Timer period is 1/2 second (500,000 uSeconds) */
118 timerParams.period = 500000;
119 timerParams.periodType = Timer.PeriodType_MICROSECS;
120 var myTimer = Timer.create(0, '&myTickFxn', timerParams);
121
122 /* Create a task with priority 1 */
123 var Task = xdc.useModule('ti.sysbios.knl.Task');
124 var taskParams = new Task.Params();
125 taskParams.priority = 1;
126 var myTask = Task.create('&myTaskFxn', taskParams);
127
128 /* Inhibit the creation of a task to run idle functions
129 Task.enableIdleTask = true; ← set to true
130
131 /*
132 * Create a binary semaphore for the timer ISR to use to
133 * signal the pended task every 10 ticks
134 */
135 var Semaphore = xdc.useModule('ti.sysbios.knl.Semaphore');
136 var semParams = new Semaphore.Params();
137 semParams.mode = Semaphore.Mode_BINARY;
138 Program.global.mySem = Semaphore.create(0, semParams);
139
```