+ Idle Task Hook Functions

It is possible to add application specific functionality directly into the idle task through the use of an idle hook (or idle callback) function—a function that is called automatically by the idle task once per iteration of the idle task loop.

+ Queue:

Length and data store

Send/receive data from queue

+ Binary semaphore

+ Counting semaphore

Just as binary semaphores can be thought of as queues having a length of one, so counting semaphores can be thought of as queues having a length of more than one. Tasks are not interested in the data that is stored in the queue—just whether the queue is empty or not. Each time a counting semaphore is ‘given’, another space in its queue is used. The number of items in the queue is the semaphore’s ‘count’ value.