**RTX Part 3 Document**

**System.h**

**Macros:**

* **NULL\_PROC\_ID 0 –**
* **KDC\_PROC\_ID 7 –**
* **CRT\_PROC\_ID 8 –**
* **UART\_IPROC\_ID 9 –**
* **TIMER\_IPROC\_ID 10 -**

**Structs:**

* **delayed\_send\_request**
  + **int exp –**
  + **int process\_ID –**
  + **VOID \* envelope –**
* **s\_char\_queue**
  + **struct s\_char\_queue\_item \* front –**
  + **struct s\_char\_queue\_item \* back** –
  + **UINT8 num\_slots -**
* **s\_char\_queue\_item**
  + **struct s\_char\_queue\_item \* next** –
  + **char data –**
* **s\_message**
  + **int sender\_id –**
  + **int dest\_id –**
  + **int type –**
  + **char \* msg\_text –**
* **s\_message\_queue**
  + **struct s\_message\_queue\_item \*front –**
  + **struct s\_message\_queue\_item \* back –**
  + **UINT8 num\_slots –**
* **struct s\_message\_queue\_item**
  + **struct s\_message\_queue\_item \* next –**
  + **struct s\_message \* data -**

**i\_proc.c**

**Global Variables:**

* **struct s\_pcb\_queue g\_iProc\_queue –**
* **struct s\_pcb\_queue\_item g\_iProc\_queue\_slots[10] –**
* **struct s\_pcb \*g\_i\_interrupted\_process –**
* **struct delayed\_send\_request send\_reqs[10] -**

**Functions:**

**void \* uart()**

* **Purpose ­–**
* **Pseudocode** –

**void timer()**

* **Purpose –**
* **Pseudocode –**

**void kdc()**

* **Purpose –**
* **Pseudocode -**

**void crt()**

* **Purpose –**
* **Pseudocode -**

**void c\_serial\_handler()**

* **Purpose –**
* **Pseudocode –**

**void c\_timer\_handler()**

* **Purpose –**
* **Pseudocode –**

**System.c**

**Functions:**