

Semaphores	<pre> INT16U OS_SemAccept(OS_EVENT *pevent); OS_EVENT *OS_SemCreate(INT16U cnt); OS_EVENT *OS_SemDel(OS_EVENT *pevent, INT8U opt, INT8U *err); void OS_SemPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); INT8U OS_SemPost(OS_EVENT *pevent); INT8U OS_SemQuery(OS_EVENT *pevent, OS_SEM_DATA *pdata); void OS_SemSet(OS_EVENT *pevent, INT16U cnt, INT8U *err); </pre>	<pre> OS_SemDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS OS_SEM_DATA: INT16U OSCnt; INT8U OSEventTbl[]; INT8U OSEventGrp; </pre>
Mutual Exclusion Semaphores	<pre> INT8U OSMutexAccept(OS_EVENT *pevent, INT8U *err); OS_EVENT *OSMutexCreate(INT8U prio, INT8U *err); OS_EVENT *OSMutexDel(OS_EVENT *pevent, INT8U opt, INT8U *err); void OSMutexPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); INT8U OSMutexPost(OS_EVENT *pevent); INT8U OSMutexQuery(OS_EVENT *pevent, OS_MUTEX_DATA *pdata); </pre>	<pre> OSMutexDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS OS_MUTEX_DATA: INT8U OSEventTbl[]; INT8U OSEventGrp; INT8U OSValue; INT8U OSOwnerPrio; INT8U OSMutexPIP; </pre>
Event Flags	<pre> OS_FLAGS OS_FlagAccept(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U wait_type, INT8U *err); OS_FLAG_GRP *OS_FlagCreate(OS_FLAGS flags, INT8U *err); OS_FLAG_GRP *OS_FlagDel(OS_FLAG_GRP *pgrp, INT8U opt, INT8U *err); OS_FLAGS OS_FlagPendGetRdyFlags(void); OS_FLAGS OS_FlagPend(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U wait_type, INT16U timeout, INT8U *err); OS_FLAGS OS_FlagPost(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U operation, INT8U *err); OS_FLAGS OS_FlagQuery(OS_FLAG_GRP *pgrp, INT8U *err); INT8U OS_FlagNameGet(OS_FLAG_GRP *pgrp, char *pname, INT8U *err); void OS_FlagNameSet(OS_FLAG_GRP *pgrp, char *pname, INT8U *err); </pre>	<pre> OS_FlagDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS wait_type: OS_FLAG_WAIT_CLR_ALL OS_FLAG_WAIT_CLR_AND OS_FLAG_WAIT_CLR_ANY OS_FLAG_WAIT_CLR_OR OS_FLAG_WAIT_SET_ALL OS_FLAG_WAIT_SET_AND OS_FLAG_WAIT_SET_ANY OS_FLAG_WAIT_SET_OR + OS_FLAG_CONSUME </pre>
Message Mailboxes	<pre> void *OSMboxAccept(OS_EVENT *pevent); OS_EVENT *OSMboxCreate(void *msg); OS_EVENT *OSMboxDel(OS_EVENT *pevent, INT8U opt, INT8U *err); void *OSMboxPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); INT8U OSMboxPost(OS_EVENT *pevent, void *msg); INT8U OSMboxPostOpt(OS_EVENT *pevent, void *msg, INT8U opt); INT8U OSMboxQuery(OS_EVENT *pevent, OS_MBOX_DATA *pdata); OSMboxDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS OSMboxPostOpt() opt: OS_POST_OPT_NONE OS_POST_OPT_BROADCAST OS_MBOX_DATA: void *OSMsg; INT8U OSEventTbl[]; INT8U OSEventGrp; </pre>	<pre> OSQDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS OS_Q_DATA: void *OSMsg; INT16U OSNMsgs; INT16U OSQSize; INT8U OSEventTbl[]; INT8U OSEventGrp; </pre>
Message Queues	<pre> void *OSQAccept(OS_EVENT *pevent, INT8U *err); OS_EVENT *OSQCreate(void **start, INT16U size); OS_EVENT *OSQDel(OS_EVENT *pevent, INT8U opt, INT8U *err); INT8U OSQFlush(OS_EVENT *pevent); void *OSQPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); INT8U OSQPost(OS_EVENT *pevent, void *msg); INT8U OSQPostFront(OS_EVENT *pevent, void *msg); INT8U OSQPostOpt(OS_EVENT *pevent, void *msg, INT8U opt); INT8U OSQQuery(OS_EVENT *pevent, OS_Q_DATA *pdata); </pre>	<pre> OSQPostOpt() opt: OS_POST_OPT_NONE OS_POST_OPT_BROADCAST OS_POST_OPT_FRONT OS_MEM_DATA: void *OSAddr; void *OSFreeList; INT32U OSBlkSize; INT32U OSNBlks; INT32U OSNFree; INT32U OSNUsed; </pre>
Memory Management	<pre> OS_MEM *OSMemCreate(void *addr, INT32U nblks, INT32U blksize, INT8U *err); void *OSMemGet(OS_MEM *pmem, INT8U *err); INT8U OSMemNameGet(OS_MEM *pmem, char *pname, INT8U *err); void OSMemNameSet(OS_MEM *pmem, char *pname, INT8U *err); INT8U OSMemPut(OS_MEM *pmem, void *blk); INT8U OSMemQuery(OS_MEM *pmem, OS_MEM_DATA *pdata); </pre>	<pre> OS_TCB: OS_STK *OSTCBStkPtr; void *OSTCBExtPtr; OS_STK *OSTCBStkBottom; INT32U OSTCBStkSize; INT16U OSTCBOpt; INT16U OSTCBId; OS_TCB *OSTCBNext; OS_TCB *OSTCBPrev; OS_EVENT *OSTCBEvtPtr; void *OSTCBMsg; OS_FLAG_NODE *OSTCBFlagNode; OS_FLAGS OSTCBFlagsRdy; INT16U OSTCBDly; INT8U OSTCBStat; INT8U OSTCBPrio; INT8U OSTCBX; INT8U OSTCBY; INT8U OSTCBBitX; INT8U OSTCBBitY; INT8U OSTCBDelReq; char OSTCBTaskName[]; INT32U OSTCBCtxSwCtr; INT32U OSTCBCyclesTot; INT32U OSTCBCyclesStart; INT32U OSTCBStkBase; INT32U OSTCBStkUsed; </pre>
Task Management	<pre> INT8U OSTaskChangePrio(INT8U oldprio, INT8U newprio); INT8U OSTaskCreate(*task)(void *pd, void *pdata, OS_STK *ptos, INT8U prio, INT16U id, OS_STK *pbos, INT32U stk_size, void *pevt, INT16U opt); INT8U OSTaskDel(INT8U prio); INT8U OSTaskDelReq(INT8U prio); INT8U OSTaskNameGet(INT8U prio, char *pname, INT8U *err); void OSTaskNameSet(INT8U prio, char *pname, INT8U *err); INT8U OSTaskResume(INT8U prio); INT8U OSTaskSuspend(INT8U prio); INT8U OSTaskStkChk(INT8U prio, OS_STK_DATA *pdata); INT8U OSTaskQuery(INT8U prio, OS_TCB *pdata); </pre>	<pre> OSTaskCreateExt() opt: OS_TASK_OPT_STK_CHK OS_TASK_OPT_STK_CLR OS_TASK_OPT_SAVE_FP OS_STK_DATA: INT32U OSFree; INT32U OSUsed; </pre>
Time Management	<pre> void OSTimeDly(INT16U ticks); INT8U OSTimeDlyHMSM(INT8U hr, INT8U min, INT8U sec, INT16U ms); INT8U OSTimeDlyResume(INT8U prio); INT32U OSTimeGet(void); void OSTimeSet(INT32U ticks); </pre>	<pre> BLACK is for Seldom used functions ORANGE is for CREATE functions RED is for DELETE functions BLUE is for Commonly used functions GREEN is for Comments </pre>
Miscellaneous	<pre> INT8U OSEventNameGet(OS_EVENT *pevent, char *pname, INT8U *err); void OSEventNameSet(OS_EVENT *pevent, char *pname, INT8U *err); void OSInit(void); void OSIntEnter(void); void OSIntExit(void); void OSSchedLock(void); void OSSchedUnlock(void); void OSStart(void); void OSStatInit(void); INT16U OSVersion(void); </pre>	<div style="text-align: center;">  <p>µC/OS-II The Real-Time Kernel</p> <p>V2.76 Quick Reference Chart</p> </div> <div style="text-align: right;"> <p>Micrium 949 Crestview Circle Weston, FL 33327 USA</p> <p>www.Micrium.com</p> </div>