

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); </pre>	<pre> OS_SemDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS </pre> <pre> 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 </pre> <pre> OS_MUTEX_DATA: INT8U   OSEventTbl[]; INT8U   OSEventGrp; INT8U   OSValue; INT8U   OSOwnerPrio; INT8U   OSMutexPIP; </pre>
Event Flags	<pre> OS_FLAGS OSFlagAccept(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U wait_type, INT8U *err); OS_FLAG_GRP *OSFlagCreate(OS_FLAGS flags, INT8U *err); OS_FLAG_GRP *OSFlagDel(OS_FLAG_GRP *pgrp, INT8U opt, INT8U *err); OS_FLAGS OSFlagPendGetRdyFlags(void); OS_FLAGS OSFlagPend(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U wait_type, INT16U timeout, INT8U *err); OS_FLAGS OSFlagPost(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U operation, INT8U *err); OS_FLAGS OSFlagQuery(OS_FLAG_GRP *pgrp, INT8U *err); INT8U     OSFlagNameGet(OS_FLAG_GRP *pgrp, char *pname, INT8U *err); void      OSFlagNameSet(OS_FLAG_GRP *pgrp, char *pname, INT8U *err); </pre>	<pre> OSFlagDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS </pre> <pre> 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); </pre> <pre> OSMboxDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS </pre> <pre> OSMboxPostOpt() opt: OS_POST_OPT_NONE OS_POST_OPT_BROADCAST </pre> <pre> OS_MBOX_DATA: void *OSMsg; INT8U OSEventTbl[]; INT8U OSEventGrp; </pre>	<pre> operation: OS_FLAG_CLR OS_FLAG_SET </pre> <pre> OSQDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS </pre> <pre> 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 </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 *pblk); INT8U    OSMemQuery(OS_MEM *pmem, OS_MEM_DATA *pdata); </pre>	<pre> OS_MEM_DATA: void *OSAddr; void *OSFreeList; INT32U OSBlkSize; INT32U OSNBlks; INT32U OSNFree; INT32U OSNUsed; </pre>
Task Management	<pre> INT8U OSTaskChangePrio(INT8U oldprio, INT8U newprio); INT8U OSTaskCreate(void (*task)(void *pd), void *pdata, OS_STK *ptos, INT8U prio); INT8U OSTaskCreateExt(void (*task)(void *pd), void *pdata, OS_STK *ptos, INT8U prio, INT16U id, OS_STK *pbos, INT32U stk_size, void *pext, 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 </pre> <pre> OS_STK_DATA: INT32U OSFree; INT32U OSUsed; </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 *OSTCBEventPtr; void *OSTCBMsg; OS_FLAGS *OSTCBFlagNode; OS_FLAGS OSTCBFlagsRdy; INT16U OSTCBdly; INT8U OSTCBStat; INT8U OSTCBPrio; INT8U OSTCBX; INT8U OSTCBY; INT8U OSTCBBitX; INT8U OSTCBBitY; BOOLEAN OSTCBDelReq; char OSTCBTaskName[]; INT32U OSTCBCtxSwCtr; INT32U OSTCBContextTot; INT32U OSTCBContextStart; INT32U OSTCBStkBase; INT32U OSTCBStkUsed; </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>  <p><b>µC/OS-II</b> The Real-Time Kernel</p> </div> <div> <p><b>V2.60 Quick Reference Chart</b></p> </div> <div> <p><b>Micrium, Inc.</b> 949 Crestview Circle Weston, FL 33327 USA <a href="http://www.Micrium.com">www.Micrium.com</a></p> </div>