Semaphores	INT16U OS_EVENT OS_EVENT void INT8U INT8U	<pre>OSSemAccept(OS_EVENT *pevent); *OSSemCreate(INT16U cnt); *OSSemCreate(INT16U cnt); *OSSemPend(OS_EVENT *pevent, INT8U opt, INT8U *err); OSSemPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); OSSemPost(OS_EVENT *pevent); OSSemQuery(OS_EVENT *pevent, OS_SEM_DATA *pdata);</pre>	OSSemDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS	OS_SEM_DATA: INT16U OSCnt; INT8U OSEventTbl[]; INT8U OSEventGrp;				
Mutual Exclusion Semaphores	INT8U OS_EVENT OS_EVENT void INT8U INT8U	OSMutexAccept(OS_EVENT *pevent, INT8U *err); *OSMutexCreate(INT8U prio, INT8U *err); *OSMutexDel (OS_EVENT *pevent, INT8U opt, INT8U *err); OSMutexPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); OSMutexPost(OS_EVENT *pevent); OSMutexQuery(OS_EVENT *pevent, OS_MUTEX_DATA *pdata);	OSMutexDel() opt: OS_DEL_NO_PEND OS_DEL_ALWAYS	OS_MUTEX_DATA: INT8U OSEventTbl[]; INT8U OSEventGrp; INT8U OSValue; INT8U OSOwnerPrio; INT8U OSMutexPIP;				
Event Flags		OS_FLAG_GRP *OSFlagCreate(OS_FLAGS flags, INT8U *err); OS_FLAG_GRP *OSFlagDel(OS_FLAG_GRP *pgrp, INT8U opt, INT8U *err); 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);						
Message Mailboxes	void OS_EVENT OS_EVENT void INT8U INT8U INT8U	*OSMboxAccept(OS_EVENT *pevent);  *OSMboxCreate(void *msg);  *OSMboxDel(OS_EVENT *pevent, INT8U opt, INT8U *err);  *OSMboxPend(OS_EVENT *pevent, INT16U timeout, INT8U *err);  OSMboxPost(OS_EVENT *pevent, void *msg);  OSMboxPostOpt(OS_EVENT *pevent, void *msg, INT8U opt);  OSMboxQuery(OS_EVENT *pevent, OS_MBOX_DATA *pdata);	OS_DEL_NO_PEND OS_DEL_ALWAYS  Operation: OS_FLAG_CLR OS_FLAG_SET	OS_FLAG_WAIT_CLR_ALL OS_FLAG_WAIT_CLR_AND OS_FLAG_WAIT_CLR_ANY OS_FLAG_WAIT_SET_ALL OS_FLAG_WAIT_SET_AND OS_FLAG_WAIT_SET_ANY OS_FLAG_WAIT_SET_OR				
		1() opt: OSMboxPostOpt() opt: OS_MBOX_DATA: NO_PEND OS_POST_OPT_NONE void *OSMsg; ALWAYS OS_POST_OPT_BROADCAST INT8U OSEventTb1[]; INT8U OSEventGrp;	OSQDel() opt:	+ OS_FLAG_CONSUME OS_Q_DATA:				
Message Queues	void OS_EVENT OS_EVENT INT8U void INT8U	OSQFlush(OS_EVENT *pevent); OSQPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); OSQPend(OS_EVENT *pevent, INT16U timeout, INT8U *err);	OS_DEL_NO_PEND OS_DEL_ALWAYS  PostOpt() opt: S_POST_OPT_NONE S_POST_OPT_BROADCAS' S_POST_OPT_FRONT	void *OSMsg; INT16U OSNMsgs; INT16U OSQSize; INT8U OSEventTbl[]; INT8U OSEventGrp;				
	INT8U INT8U INT8U	OSQPostFront(OS_EVENT *pevent, void *msg); OSQPostOpt(OS_EVENT *pevent, void *msg, INT8U opt); OSQQuery(OS_EVENT *pevent, OS_Q_DATA *pdata);  *OSMemCreate(void *addr, INT32U nblks, INT32U blksize, INT8	U *err):	OS_MEM_DATA: void *OSAddr; void *OSFreeList; INT32U OSBlkSize;				
Memory Management	void INT8U INT8U	*OSMemGet(OS_MEM *pmem, INT8U *err); OSMemPut(OS_MEM *pmem, void *pblk); OSMemQuery(OS_MEM *pmem, OS_MEM_DATA *pdata);		INT32U OSNBlks; INT32U OSNFree; INT32U OSNUsed;				

## µC/OS-II The Real-Time Kernel

## **V2.51 Quick Reference Chart**

Task Management	INT8U	OSTaskChangePrio(INT8U oldprio, INT8' OSTaskCreate(void (*task)(void *pd), OSTaskCreateExt(void (*task)(void * void *pdata, OS_STK *ptos, INT8U prio, INT16U id, OS_STK *pbos, INT32U stk_size, void *pext, INT16U opt); OSTaskDel(INT8U prio); OSTaskDelReq(INT8U prio); OSTaskSuspend(INT8U prio); OSTaskSuspend(INT8U prio); OSTaskStkChk(INT8U prio, OS_STK_DATA OSTaskQuery(INT8U prio, OS_TCB *pdata	void *pdata, OS_STK *pd),  OSTask OS_TA OS_TA OS_TA *pdata);  OS_STK	CreateExt() opt: SK_OPT_STK_CHK SK_OPT_STK_CLR SK_OPT_SAVE_FP  _DATA: U OSFree;	OS_TCB: OS_STK VOID OS_STK INT32U INT16U INT16U OS_TCB OS_TCB OS_TCB OS_FLAG_NODE OS_FLAG_NODE INT16U INT8U	*OSTCBStkPtr;  *OSTCBEXtPtr;  *OSTCBStkBottom; OSTCBStkSize; OSTCBOpt; OSTCBId; *OSTCBNext; *OSTCBPrev; *OSTCBPrev; *OSTCBFlagNode; OSTCBFlagNode; OSTCBFlagNode; OSTCBDly; OSTCBStat; OSTCBSTCBY; OSTCBSTCBY; OSTCBSTCBY; OSTCBSTCBY; OSTCBSTCBY; OSTCBSTCBY; OSTCBBIT; OSTCBBIT; OSTCBBIT; OSTCBBIT; OSTCBBIT; OSTCBDIP;
Time Management	void INT8U INT8U INT32U void	OSTimeDly(INT16U ticks); OSTimeDlyHMSM(INT8U hr, INT8U min, INT8U sec, INT16U ms); OSTimeDlyResume(INT8U prio); OSTimeGet(void); OSTimeGet(INT32U ticks);  NOTE: ORANGE is for CREATE functions RED is for DELETE functions BLUE is for Commonly used functions GREEN is for Comments				
Miscellaneous	void void void void void void void INT16U	OSInit(void); OSIntEnter(void); OSIntExit(void); OSSchedLock(void); OSSchedUnlock(void); OSStart(void); OSStart(void); OSStatInit(void); OSVersion(void);	Micrium, Inc. 949 Crestview Circle Weston, FL 33327 USA www.Micrium.com			