μC/OS-II, The Real-Time Kernel

V2.85 Quick Reference Chart

Micriµm

OS_MUTEX_DATA: BOOLEAN OSValue INT8U OSOwnerPrio INT8U OSMutexPIP #if OS_LOWEST_PRIO <= 63

#IT OS_LOWEST_PRIO <= INT8U OSEventGrp INT8U OSEventTbl[] #else INT16U OSEventGrp INT16U OSEventTbl[] #endif

Orange is for CP Red is for DP Blue is for co Green is for co	ELETE functions ommonly used functions	OPTIONS (opt)	949 Crestview Circle Weston, FL 33327 USA www.Micrium.com Miscellaneous
SEMIADION INTIGU OS_EVENT OS_EVENT VOId INTEU INTEU INTEU	OSSemAccept(OS_EVENT *pevent); *OSSemCeate(INT16U cnt); *OSSemDel(OS_EVENT *pevent, INT8U opt, INT8U *err); OSSemPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); OSSemPendAbort(OS_EVENT *pevent, INT8U opt, INT8U *err); OSSemPost(OS_EVENT *pevent); OSSemQuery(OS_EVENT *pevent); OSSemQuery(OS_EVENT *pevent, OS_SEM_DATA *p_sem_data);	OS_DEL_NO_PEND OS_DEL_ALWAYS OS_PEND_OPT_NONE OS_PEND_OPT_BROADCAST	OS_SEM_DATA: INT16U OSCht #if OS_LOWEST_PRIO <= 63 INT8U OSEventGrp INT8U OSEventTbl[] #else INT16U OSEventGrp INT16U OSEventTbl[] #endif
void	OSSemSet(OS_EVENT *pevent, INT16U cnt, INT8U *err);		
Mutual EX BOOLEAN OS_EVENT OS_EVENT	<pre>Colusion Semaphores (OS_MUTEX.C) OSMutexAccept(OS_EVENT *pevent, INT8U *err); *OSMutexCreate(INT8U prio, INT8U *err); *OSMutexDel(OS_EVENT *pevent, INT8U opt, INT8U *err);</pre>	OS_DEL_NO_PEND OS_DEL_ALWAYS	
void INT8U INT8U	OSMutexPend(OS_EVENT *pevent, INT16U timeout, INT8U *err); OSMutexPost(OS_EVENT *pevent); OSMutexQuery(OS_EVENT *pevent, OS_MUTEX_DATA *p_mutex_data);		OS_MUTEX_DATA:

μC/OS-II, The Real-Time Kernel

V2.85 Quick Reference Chart

Legend:
Black is for seldom used functions
Orange is for CREATE functions
Red is for DELETE functions
Weston, FL 33327
Blue is for comments
USA
Green is for comments

Micriµm
949 Crestview Circle
Weston, FL 33327
USA
www.Micriµm.com

		OPTIONS (opt)	Miscellaneous
Event Fla	gs (OS_FLAG.C)	- V-1-9	
OS_FLAGS OS_FLAG_GRP OS_FLAG_GRP	OSFlagAccept(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U wait_type, INT8U *err); *OSFlagCreate(OS_FLAG_GRP *pgrp, INT8U *err); *OSFlagDel(OS_FLAG_GRP *pgrp, INT8U opt, INT8U *err);	OS_DEL_NO_PEND OS_DEL_ALWAYS	
INT8U void os_flags	OSFlagNameGet(OS_FLAG_GRP *pgrp, INT8U *pname, INT8U *err); OSFlagNameSet(OS_FLAG_GRP *pgrp, INT8U *pname, INT8U *err); OSFlagPend(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U wait_type, INT16U timeout, INT8U *err);	o_oss_amaio	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_ANY OS_FLAG_WAIT_SET_ANY OS_FLAG_WAIT_SET_OR + OS_FLAG_CONSUME
OS_FLAGS OS_FLAGS	OSFlagPendGetFlagsRdy(void); OSFlagPost(OS_FLAG_GRP *pgrp, OS_FLAGS flags, INT8U opt, INT8U *err);	OS_FLAG_CLR OS_FLAG_SET	
OS_FLAGS	OSFlagQuery(OS_FLAG_GRP *pgrp, INT8U *err);		
Message	Mailboxes (OS_MBOX.C)		
void OS_EVENT OS_EVENT void	*OSMboxAccept(OS_EVENT *pevent); *OSMboxCreate(void *msg); *OSMboxDel(OS_EVENT *pevent, INT8U opt, INT8U *err); *OSMboxPend(OS_EVENT *pevent, INT16U timeout, INT8U *err);	OS_DEL_NO_PEND OS DEL ALWAYS	
INT8U	OSMboxPendAbort(OS_EVENT *pevent, INT8U opt, INT8U *err);	OS_PEND_OPT_NONE OS_PEND_OPT_BROADCAST	
INT8U INT8U	<pre>OSMboxPost(OS_EVENT *pevent, void *msg); OSMboxPostOpt(OS_EVENT *pevent, void *msg, INT8U opt);</pre>	OS_POST_OPT_NONE OS_POST_OPT_BROADCAST OS_POST_OPT_NO_SCHED	
INT8U	OSMboxQuery(OS_EVENT *pevent, OS_MBOX_DATA *p_mbox_data);		OS_MBOX_DATA: Void *msg #if OS_LOWEST_PRIO <= 63 INT8U OSEVENTSD[] #else INT16U OSEVENTGTP INT16U OSEVENTGTP INT16U OSEVENTDS[] #endif

μC/OS-II, The Real-Time Kernel

V2.85 Quick Reference Chart

Legend:
Black is for seldom used functions
Orange is for CREATE functions

Red is for DELETE functions
Blue is for comments

Weston, FL 33327
USA
Green is for comments

Micriµm
949 Crestview Circle
Weston, FL 33327
USA
www.Micriµm.com

		OPTIONS (opt)	Miscellaneous
Messag	e Queues (OS_Q.C)		
void	*OSQAccept(OS_EVENT *pevent, INT8U *err);		
OS EVENT	*OSQCreate(void **start, INT16U size);		
OS_EVENT	*OSQDel(OS_EVENT *pevent, INT8U opt, INT8U *err);	OS_DEL_NO_PEND OS_DEL_ALWAYS	
INT8U	OSQFlush(OS_EVENT *pevent);		
void	*OSQPend(OS_EVENT *pevent, INT16U timeout, INT8U *err);		
INT8U	OSQPendAbort(OS_EVENT *pevent, INT8U opt, INT8U *err);	OS_PEND_OPT_NONE OS_PEND_OPT_BROADCAST	
INT8U	OSQPost(OS_EVENT *pevent, void *msg);		
INT8U	OSQPostFront(OS_EVENT *pevent, void *msg);		
INT8U	OSQPostOpt(OS_EVENT *pevent, void *msg, INT8U opt);	OS_POST_OPT_NONE OS_POST_OPT_BROADCAST OS_POST_OPT_FRONT OS_POST_OPT_NO_SCHED	
INT8U	OSQQuery(OS_EVENT *pevent, OS_Q_DATA *p_q_data);		OS_O_DATA: void *OSMsg INT16U OSMSss INT16U OSQSize #if OS_LOWEST_PRIO <= 63 INT8U OSEVentGrp INT8U OSEVentTbl[] #else INT16U OSEVentGrp INT16U OSEVentTbl[] #endif
Memory	Management (OS_MEM.C)		
OS_MEM Void INT8U Void	*OSMemCreate(void *addr, INT32U nblks, INT32U blksize, INT8U *err); *OSMemGet(OS_MEM *pmem, INT8U *err); OSMemNameGet(OS_MEM *pmem, INT8U *pname, INT8U *err); OSMemNameSet(OS_MEM *pmem, INT8U *pname, INT8U *err);		
INTSU INTSU	OSMemPut(OS_MEM *pmem, void *pblk); OSMemQuery(OS_MEM *pmem, OS_MEM_DATA *p_mem_data);		OS_MEM_DATA: void *OSAddr void *OSFreeList INT32U OSBlkSize INT32U OSNBlks INT32U OSNFree INT32U OSNUsed

µC/OS-II, The Real-Time Kernel

V2.85 Quick Reference Chart

Legend:
Black is for seldom used functions
949 Crestview Circle
Orange is for CREATE functions
Red is for DELETE functions
Blue is for commonly used functions
Orange is for comments

USA
Oreen is for comments

www.Micrium.com

-		1	www.iviichum.com
		OPTIONS (opt)	Miscellaneous
Task M	anagement (OS_TASK.C)		
INT8U	OSTaskChangePrio(INT8U oldprio, INT8U newprio);		
INT8U	OSTaskCreate(void (*task)(void *p_arg), void *p_arg, OS_STK *ptos, INT8U prio);		
INT8U	OSTaskCreateExt(void (*task)(void *p_arg),		
l	void *p_arg,		
I	OS_STK *ptos,		
I	INT8U prio,		
I	INT16U id,		
I	OS_STK *pbos,		
I	INT32U stk_size,		
1	void *pext,		
I	INT16U opt);	OS_TASK_OPT_NONE	
I		OS_TASK_OPT_STK_CHK OS_TASK_OPT_STK_CLR	
		OS_TASK_OPT_SIK_CHR	
		1	
INT8U	OSTaskDel(INT8U prio);		
INT8U	OSTaskDelReq(INT8U prio);		
INT8U	OSTaskNameGet(INT8U prio, INT8U *pname, INT8U *err);		
void	OSTaskNameSet(INT8U prio, INT8U *pname, INT8U *err);		
INT8U	OSTaskResume(INT8U prio);		
INT8U	OSTaskSuspend(INT8U prio);		
INT8U	OSTaskStkChk(INT8U prio, OS_STK_DATA *p_stk_data);		OS_STK_DATA:
I			INT32U .OSFree INT32U .OSUsed
			1111120 .000Bed
INT8U	OSTaskQuery(INT8U prio, OS_TCB *p_task_data);		
Time M	anagement (OS_TIME.C)		
void	OSTimeDly(INT16U ticks);		
INT8U	OSTimeDlyHMSM(INT8U hours, INT8U minutes, INT8U seconds, INT16U milli);		
INT8U	OSTimeDlyResume(INT8U prio);		
INT32U	OSTimeGet(void);		
void	OSTimeSet(INT32U ticks);		
void	OSTimeTick(void);		

µC/OS-II, The Real-Time Kernel

V2.85 Quick Reference Chart

Legend:
Black is for seldom used functions
Orange is for CREATE functions
Red is for DELETE functions
Blue is for comments
Green is for comments

Micriµm 949 Crestview Circle Weston, FL 33327 USA www.Micrium.com

				*	www.Micrium.com
				OPTIONS (opt)	Miscellaneous
Timer Ma	nagement (O	S_TMR.C)			
OS_TMR	*OSTmrCreate	(INT32U INT32U INT8U OS_TWR_CALLBACK void INT8U INT8U	<pre>dly, period, opt, callback, *callback_arg, *pname, *perr);</pre>		
BOOLEAN	OSTmrDel	(OS_TMR INT8U	*ptmr, *perr);		
INT8U	OSTmrNameGet	(OS_TMR INT8U INT8U	<pre>*ptmr, *pdest, *perr);</pre>		
INT32U	OSTmrRemainGet	(OS_TMR INT8U	*ptmr, *perr);		
INT8U	OSTmrStateGet	(OS_TMR INT8U	*ptmr, *perr);		
BOOLEAN	OSTmrStart	(OS_TMR INT8U	*ptmr, *perr);	OS_TMR_OPT_PERIODIC OS_TMR_OPT_ONE_SHOT	
void	OSTmrStop	(OS_TMR INT8U void INT8U	<pre>*ptmr, opt, *callback_arg, *perr);</pre>	OS_TMR_OPT_NONE OS_TMR_OPT_CALLBACK OS_TMR_OPT_CALLBACK_ARG	
void	OSTmrSignal	(void);			
Miscellar	neous (OS_CC	RE.C)			
INT8U void void void void void void void void	OSEventNameGet(OS_EVENT *pevent, INT8U *pname, INT8U *err); OSEventNameSet(OS_EVENT *pevent, INT8U *pname, INT8U *err); OSInit(void); OSIntExter(void); OSIntExti(void); OSSchedLock(void); OSSchedLock(void); OSSchedLock(void); OSSchedVoid);				
void INT16U	OSStatInit(void);				
	osversion(void)			†	
void void void	OSCtxSw(void); OSIntCtxSw(void); OSStartHighrdy(void);				
Port Functions (OS_CPU_C.C)					
void void void void void void os_stk	OSInitHookBegin(void); OSInitHookEnd(void); OSTaskCeateHook(OS_TCB *ptcb); OSTaskDelHook(OS_TCB *ptcb); OSTaskIdleHook(Void); OSTaskIdleHook(void); *OSTaskStatHook(void); *OSTaskStkNnit(void (*task)(void *p_arg), void *p_arg, OS_STK *ptos, INT16U opt);				
void void void	OSTaskSwHook(void); OSTCBInitHook(OS_TCB *ptcb); OSTimeTickHook(void);				