

# μC/OS-II, The Real-Time Kernel

V2.92.11 Quick Reference Chart

Legend:  
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Green

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				OPTIONS (opt)	Miscellaneous
<b>Semaphores (OS_SEM.C)</b>					
INT16U	OSSemAccept	(OS_EVENT	*pevent);		
OS_EVENT	*OSSemCreate	(INT16U	cnt);		
OS_EVENT	*OSSemDel	(OS_EVENT	*pevent,		
		INT8U	opt,		
		INT8U	*perr);		
void	OSSemPend	(OS_EVENT	*pevent,		
		INT32U	timeout,		
		INT8U	*err);		
INT8U	OSSemPendAbort	(OS_EVENT	*pevent,		
		INT8U	opt,		
		INT8U	*perr);		
INT8U	OSSemPost	(OS_EVENT	*pevent);		
INT8U	OSSemQuery	(OS_EVENT	*pevent,		OS_SEM_DATA:
		OS_SEM_DATA	*p_sem_data);		
void	OSSemSet	(OS_EVENT	*pevent,		
		INT16U	cnt,		
		INT8U	*perr);		

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Mutual Exclusion Semaphores (OS_MUTEX.C)			
BOOLEAN	OSMutexAccept	(OS_EVENT INT8U	*pevent, *perr);
OS_EVENT	*OSMutexCreate	(INT8U INT8U	prio, *perr);
OS_EVENT	*OSMutexDel	(OS_EVENT INT8U INT8U	*pevent, opt, *perr);
void	OSMutexPend	(OS_EVENT INT32U INT8U	*pevent, timeout, *perr);
INT8U	OSMutexPost	(OS_EVENT	*pevent);
INT8U	OSMutexQuery	(OS_EVENT OS_MUTEX_DATA	*pevent, *p_mutex_data);
			OS_MUTEX_DATA:

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<b>Event Flags (OS_FLAG.C)</b>					
OS_FLAGS	OSFlagAccept	(OS_FLAG_GRP OS_FLAGS INT8U INT8U	*pgrp, flags, wait_type, *perr);		
OS_FLAG_GRP	*OSFlagCreate	(OS_FLAGS INT8U	flags, *perr);		
OS_FLAG_GRP	*OSFlagDel	(OS_FLAG_GRP INT8U INT8U	*pgrp, opt, *perr);		
INT8U	OSFlagNameGet	(OS_FLAG_GRP INT8U INT8U	*pgrp, **pname, *perr);		
void	OSFlagNameSet	(OS_FLAG_GRP INT8U INT8U	*pgrp, *pname, *perr);		
OS_FLAGS	OSFlagPend	(OS_FLAG_GRP OS_FLAGS INT8U INT16U INT8U	*pgrp, flags, wait_type, timeout, *perr);		
OS_FLAGS	OSFlagPendGetFlagsRdy	(void);			
OS_FLAGS	OSFlagPost	(OS_FLAG_GRP OS_FLAGS INT8U INT8U	*pgrp, flags, opt, *perr);		
OS_FLAGS	OSFlagQuery	(OS_FLAG_GRP INT8U	*pgrp, *perr);		

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<b>Message Mailboxes (OS_MBOX.C)</b>					
void	*OSMboxAccept	(OS_EVENT	*pevent);		
OS_EVENT	*OSMboxCreate	(void	*msg);		
OS_EVENT	*OSMboxDel	(OS_EVENT	*pevent,		
		INT8U	opt,		
		INT8U	*perr);		
void	*OSMboxPend	(OS_EVENT	*pevent,		
		INT32U	timeout,		
		INT8U	*perr);		
INT8U	OSMboxPendAbort	(OS_EVENT	*pevent,		
		INT8U	opt,		
		INT8U	*perr);		
INT8U	OSMboxPost	(OS_EVENT	*pevent,		
		void	*pmsg);		
INT8U	OSMboxPostOpt	(OS_EVENT	*pevent,		
		void	*pmsg,		
		INT8U	opt);		
INT8U	OSMboxQuery	(OS_EVENT	*pevent,		OS_MBOX_DATA:
		OS_MBOX_DATA	*p_mbox_data);		

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<b>Message Queues (OS_Q.C)</b>					
void	*OSQAccept	(OS_EVENT INT8U	*pevent, *perr);		
OS_EVENT	*OSQCreate	(void INT16U	**start, size);		
OS_EVENT	*OSQDel	(OS_EVENT INT8U INT8U	*pevent, opt, *perr);		
INT8U	OSQFlush	(OS_EVENT	*pevent);		
void	*OSQPend	(OS_EVENT INT32U INT8U	*pevent, timeout, *perr);		
INT8U	OSQPendAbort	(OS_EVENT INT8U INT8U	*pevent, opt, *perr);		
INT8U	OSQPost	(OS_EVENT void	*pevent, *pmsg);		
INT8U	OSQPostFront	(OS_EVENT void	*pevent, *pmsg);		
INT8U	OSQPostOpt	(OS_EVENT void INT8U	*pevent, *pmsg, opt);		
INT8U	OSQQuery	(OS_EVENT OS_Q_DATA	*pevent, *p_q_data);		OS_Q_DATA:

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<b>Memory Management (OS_MEM.C)</b>					
OS_MEM	*OSMemCreate	(void INT32U INT32U INT8U	*addr, nblks, blksize, *perr);		
void	*OSMemGet	(OS_MEM INT8U	*pmem, *perr);		
INT8U	OSMemNameGet	(OS_MEM INT8U INT8U	*pmem, **pname, *perr);		
void	OSMemNameSet	(OS_MEM INT8U INT8U	*pmem, *pname, *perr);		
INT8U	OSMemPut	(OS_MEM void	*pmem, *pblk);		
INT8U	OSMemQuery	(OS_MEM OS_MEM_DATA	*pmem, *p_mem_data);		OS_MEM_DATA:

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<b>Task Management (OS_TASK.C)</b>					
INT8U	OSTaskChangePrio	(INT8U INT8U	oldprio, newprio);		
INT8U	OSTaskCreate	(void void OS_STK INT8U	(*task)(void *p_arg), *p_arg, *ptos, prio);		
INT8U	OSTaskCreateExt	(void void OS_STK INT8U INT16U OS_STK INT32U void INT16U	(*task)(void *p_arg), *p_arg, *ptos, prio, id, *pbos, stk_size, *pext, opt);		
INT8U	OSTaskDel	(INT8U	prio);		
INT8U	OSTaskDelReq	(INT8U	prio);		
INT8U	OSTaskNameGet	(INT8U INT8U INT8U	prio, **pname, *perr);		
void	OSTaskNameSet	(INT8U INT8U INT8U	prio, *pname, *perr);		
INT32U	OSTaskRegGet	(INT8U INT8U INT8U	prio, id, *perr);		
INT8U	OSTaskRegGetID	(INT8U	*perr);		
void	OSTaskRegSet	(INT8U INT8U INT32U INT8U	prio, id, value, *perr);		
INT8U	OSTaskResume	(INT8U	prio);		
INT8U	OSTaskSuspend	(INT8U	prio);		
INT8U	OSTaskStkChk	(INT8U OS_STK_DATA	prio, *p_stk_data);		OS_STK_DATA:
INT8U	OSTaskQuery	(INT8U OS_TCB	prio, *p_task_data);		

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<b>Timer Management (OS_TMR.C)</b>					
OS_TMR	*OSTmrCreate	(INT32U INT32U INT8U OS_TMR_CALLBACK void INT8U INT8U	dly, period, opt, callback, *callback_arg, *pname, *perr);		
BOOLEAN	OSTmrDel	(OS_TMR INT8U	*ptmr, *perr);		
INT8U	OSTmrNameGet	(OS_TMR INT8U INT8U	*ptmr, **pdest, *perr);		
INT32U	OSTmrRemainGet	(OS_TMR INT8U	*ptmr, *perr);		
INT8U	OSTmrStateGet	(OS_TMR INT8U	*ptmr, *perr);		
BOOLEAN	OSTmrStart	(OS_TMR INT8U	*ptmr, *perr);		
void	OSTmrStop	(OS_TMR INT8U void INT8U	*ptmr, opt, *callback_arg, *perr);		
void	OSTmrSignal	(void);			

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<b>Port Functions (OS_CPU_A.ASM)</b> void        OSCtxSw                (void) ; void        OSIntCtxSw          (void) ; void        OSStartHighRdy      (void) ;		
<b>Port Functions (OS_CPU_C.C)</b> void        OSInitHookBegin    (void) ; void        OSInitHookEnd      (void) ; void        OSTaskCreateHook    (OS_TCB        *ptcb) ; void        OSTaskDelHook       (OS_TCB        *ptcb) ; void        OSTaskIdleHook      (void) ; void        OSTaskReturnHook    (OS_TCB        *ptcb) ; void        OSTaskStatHook      (void) ; OS_STK      *OSTaskStkInit      (void        (*task) (void *p_arg), void        *p_arg, OS_STK        *ptos, INT16U        opt) ; void        OSTaskSwHook        (void) ; void        OSTCBInitHook       (OS_TCB        *ptcb) ; void        OSTimeTickHook      (void) ;		