µC/OS-II, The Real-Time Kernel

V2.88 Quick Reference Chart

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

Red is for DELETE functions
Blue is for commonly used functions
Green is for comments

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OPTIONS (opt) Miscellaneous Semaphores (OS_SEM.C) INT16U OSSemAccept (OS_EVENT *pevent); S_EVENT *OSSemCreate (INT16U cnt); OS_EVENT (OS_EVENT OS_DEL_NO_PEND OS_DEL_ALWAYS *pevent, INT8U opt, INT8U *perr); roid ${\tt OSSemPend}$ (OS_EVENT *pevent, INT32U timeout, *err); INT8U OSSemPendAbort (OS_EVENT *pevent, OS_PEND_OPT_NONE
OS_PEND_OPT_BROADCAST INT8U opt, INT8U *perr); (OS_EVENT INT8U OSSemPost *pevent); INT8U OSSemQuery (OS_EVENT *pevent, OS_SEM_DATA: INT16U OSCnt OS_SEM_DATA *p_sem_data); #if OS_LOWEST_PRIO <= 63 INT8U OSEventGrp INT8U OSEventTbl[] #else INT16U OSEventGrp INT16U OSEventTbl[] #endif oid OSSemSet (OS_EVENT INT16U cnt, *perr);

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Miscellaneous

OPTIONS (opt)

Event Fla	igs (OS_FLAG.C)				
OS_FLAGS	OSFlagAccept	(OS_FLAG_GRP OS_FLAGS INT8U INT8U	*pgrp, flags, wait_Eype, *perr);		
OS_FLAG_GRP	*OSFlagCreate	(OS_FLAGS INT8U	<pre>flags, *perr);</pre>		
OS_FLAG_GRP	*OSFlagDel	(OS_FLAG_GRP INT8U INT8U	*pgrp, opt. *perr);	OS_DEL_NO_PEND OS_DEL_ALWAYS	
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 INTEU INT16U INT8U	*pgrp, flags, wait_type, timeout, *perr);		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	OSFlagPendGetFlagsRdy				
OS_FLAGS	OSFlagPost	(OS_FLAG_GRP OS_FLAGS INT8U INT8U	*pgrp, flags, opt, *perr);	OS_FLAG_CLR OS_FLAG_SET	
OS_FLAGS	OSFlagQuery	(OS_FLAG_GRP INT8U	*pgrp, *perr);		

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OPTIONS (opt) Miscellaneous Message Queues (OS_Q.C) void *OSQAccept (OS_EVENT *pevent, *perr); S_EVENT *OSQCreate (void **start, INT16U size); OS_EVENT (OS_EVENT *pevent, OS_DEL_NO_PEND OS_DEL_ALWAYS INT8U opt, INT8U *perr); INT8U OSQFlush (OS_EVENT *pevent); *OSQPend (OS_EVENT *pevent, INT32U timeout, INT8U *perr); INT8U OS_PEND_OPT_NONE
OS_PEND_OPT_BROADCAST OSQPendAbort (OS_EVENT *pevent, INT8U opt, INT8U *perr); INT8U (OS_EVENT void *pmsg); INT8U OSQPostFront (OS EVENT *pevent, void *pmsg); OSQPostOpt (OS_EVENT *pevent, OS_POST_OPT_NONE OS_POST_OPT_BROADCAST void *pmsg, opt); OS_POST_OPT_FRONT OS_POST_OPT_NO_SCHED INT8U OSQQuery (OS_EVENT *pevent, OS_Q_DATA: void *OSMsg OS_Q_DATA *p_q_data); INT16U OSNMsgs INT16U OSQSize #if OS_LOWEST_PRIO <= 63 OSEventGrp INT8U INT16U OSEventGrp INT16U OSEventTbl[] #endif

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				OPTIONS (opt)	Miscellaneous
Memor	y Management (C	S_MEM.C)			
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_DATA	*pmem, *p_mem_data);		OS_MEM_DATA: void *OSAddr void *OSFreeList INT32U OSB1kSize INT32U OSNB1kS INT32U OSNFree INT32U OSNUsed

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				OPTIONS (opt)	Miscellaneous
Task M	lanagement (OS_T/	ASK.C)			
INT8U	OSTaskChangePrio	(INT8U INT8U	oldprio, newprio);		
INT8U	OSTaskCreate	(void void OS_STK INT8U	<pre>(*task)(void *p_arg), *p_arg, *ptos, prio);</pre>		
INT8U	OSTaskCreateExt	(void void OS_STK INT8U INT16U OS_STK INT32U void INT16U	<pre>(*task)(void *p_arg), *p_arg, *ptos, prio, id, *pbos, stk_size, *pext, opt);</pre>	OS_TASK_OPT_NONI OS_TASK_OPT_STK, OS_TASK_OPT_STK, OS_TASK_OPT_SAVI	_CHK _CLR
INT8U	OSTaskDel	(INT8U	prio);		
INT8U	OSTaskDelReq	(INT8U	prio);		
INT8U	OSTaskNameGet	(INT8U INT8U INT8U	<pre>prio, *pname, *perr);</pre>		
void	OSTaskNameSet	(INT8U INT8U INT8U	<pre>prio, *pname, *perr);</pre>		
INT8U	OSTaskResume	(INT8U	prio);		
INT8U	OSTaskSuspend	(INT8U	prio);		
INT8U	OSTaskStkChk	(INT8U OS_STK_DATA	<pre>prio, *p_stk_data);</pre>		OS_STK_DATA: INT32U .OSFree INT32U .OSUsed
INT8U	OSTaskQuery	(INT8U OS_TCB	<pre>prio, *p_task_data);</pre>		

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					OPTIONS (opt)	Miscellaneous			
Time M	lanagement (OS_T	IME.C)							
void	OSTimeDly	(INT32U	ticks);						
INT8U	OSTimeDlyHMSM	(INT8U INT8U INT8U INT16U	hours, minutes, seconds, milli);						
INT8U	OSTimeDlyResume OSTimeGet	(INT8U	prio);						
INT32U void	OSTIMEGET	(void); (INT32U	ticks);						
void	OSTIMESEC	(void);	CICRD / ;						

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