# μC/OS-II V2.92.11 Configuration Manual

Wich fiked h# lgh #ch#ghfll #i#khri ilj dech#hoh h #i#F2RWOLL#Ehfd h#F2RWOLL#1# lghg#1#
fh#1 #filj dl #1#g h#k jl#c## eh#i##define#f d ##klfk#dh#1 g#1#os\_cfg.h#dg#
k og#hl#1 #hodfk# nhof2 gf#kd# #ghho #1L# kh# g#filj dl #1#g h#ld#f glldo#
lodl ###

L hdg#i#fhdlj#d#os\_cfg.h#ildn## #fdfk#!#l#hr h ghg#kd# #f #d g# gli# h#i#kh#os\_cfg.h#ildn# lghg#l# h#i#kh#hd dh#kd#fd h#lk#F2RVOII##os\_cfg.h#l#lgh h gh #i#kh#hb#i#FS # hg##

Wkl #hf l #gh f leh #hdfk# i#kh##define#f d #l #DS\_CFG.H#

### Miscellaneous

### OS APP HOOKS EN

kh #h# #1#kl ##define# hflilh #kd #d dfdl #ghil hg#k n #d h#fdochg#l #F2R VOLL #k n ##Vhh# do #DS CPU HOOKS EN1##V hflilfdo #

#	TI CIOS III I		1			1.01	
	The μC/OS-II hook			Calls the A	pplicatio	n-define hook	• •
	OSTaskCreateHook()	OSTaskCreateHook()			App_TaskCreateHook()		
	OSTaskDelHook()	OSTaskDelHook()			App TaskDelHook()		
	OSTaskIdleHook()	OSTaskIdleHook()			App TaskIdleHook()		
	OSTaskStatHook()			App Task	StatHo	ok()	
	OSTaskSwHook()			App Task	SwHock	()	
	OSTCMInitHook()			App TCBI	nitHoo	k()	•
	OSTimeTickHook()	1	ſ	App Time	ГіскНо	o <b>k</b> ()	П
#				_			
OS A	rg chk en						
OS ARG	CHK EN# glfdh # khkh# #	d # # i#	F2R V0II#	fl ##hi	#1	h #fkhfnlj#	kh
		# d hg# #i	f1 #dh#	ONULL#k	d# <b>1</b> 1	h # d hg#dh#	l kl

OS ARG h# #1# doo dedn#d jh#d g# h#ps\_arg\_chk\_en# d #dgghg# #hg fh#kh#d #i#f gh# dfh#d g# fh 1 j#1 h# h l hg#e # F2R VOLL #Vh #os arg chk en# #o#li# # # hg fh#f gh# dfh# #d# 1 1 1 1 1 1 1 1 h h do# # k og#do d #h de ch#d h #fkhfnl j#d g#k #h #DS ARG CHK EN# #4#

### OS CPU HOOKS EN

OS CPU HOOKS EN# glfd h # kh kh #OS CPU C.C#ghfod h #kh#k n# f l # kh # h# # 1,# # # kh # h# #0, \#Uhfdoo#kd # F2R VOIL#h hf #kh# h h fh# i#1 h# f l #kd #fd #e h#ghil hg#hl kh #l #kh# #l1hl/#l # OS CPU C.C,# #e #kh#d dfdl #f gh##Wkh h#i fl #dh#

OSInitHookBegin()# OSInitHookEnd() OSTaskCreateHook() OSTaskDelHook() OSTaskIdleHook() OSTaskStatHook() OSTaskSwHook() OSTCBInitHook() OSTimeTickHook DS DEBUG EN

kh # h# #1#kl ##defire#dgg #URP #f d #ofd hg#l #Os\_DEBUG.C# #kho# #nh ho#d dh# he jjh 1##V hflilfdoo #dd#∎ eh#i#∎d hg#URP#dldefdh#fot #eh# hlhg#e #d#ghe jjh##ilg# #de # ldng0l # 1 1##I #h d dn/# kh#ghe jjh #fd #il g# #kh#1 h# i#d #os\_TCB# F2R V0LL # h 1 # eh #kh#1 h# i#d #h h #kodj#j #05 Flag Grp,#d kg# fk# h1#

OS\_EVENT MULTI\_EN

Wkl #f d #ght l h # kh kh #k #f gh# # # h gl j# # ol o#h h # locen#h dech#4,# # #3, ##

Wkl #f d #ght l h # kh #h #f gh# # kh#i f l #pseventPendMulti() # Wkl m# defind# d #lgghg# #751; 9 ##

OS\_EVENT NAME\_EN

Wkl #f d #ghh l h # kh kh # d h #fd # h #d lj hg# #h kh #d# h d k h ### h #d oe # #d#

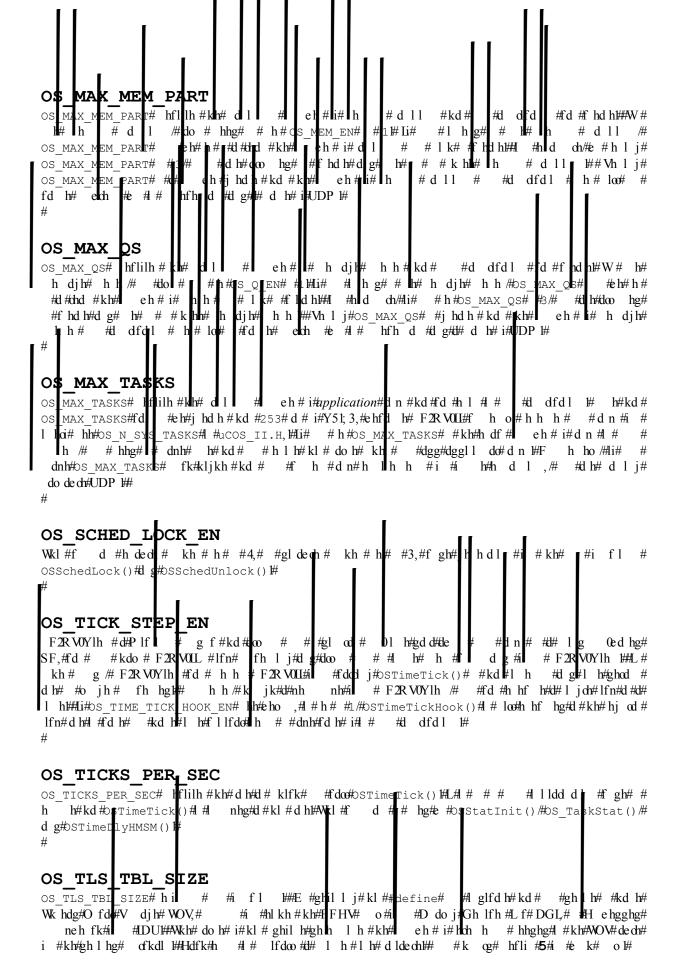
h djh# h h ##Li#os\_EVENT\_NAME\_EN l # h # 10 #kl # h h d k h ### h #cg# h #kd # h hg# # h #

OSEVENTNAMESE()# # h # kh# d h# i#hl kh #d# h d k h ### h #d loe # ### h djh# h h### #

h hg# # h #OSEVENTNAMEGE()# # e dl # kh# d h# i#hl kh #d# h d k h ### h #d# dloe # ### h djh# h h### #

OS\_LOWEST\_PRIO

OS\_LOWEST\_PRIO# hflilh # kh#o h # d n# l l # llhl#kljkh # eh ,# kd# #6 d ,6 k,9 ,04: .; d #hl kh##



### **Event Flags**

### OS FLAG EN

OS\_FLAG\_EN#h de ch # kh # h # #4,# #gl de ch # kh # h # #3,#f gh#jh h d l # i#all#kh#h h Oiodj# h lfh # d g#gd d# f h # klfk# hg fh # kh#d # i#f gh#d g#gd d# df h# hhghg# kh # #d dfd l #g h # # h l h#kh# h# i#h h #iodj # kh #OS\_FLAG\_EN# # h # #3# #g # # hhg# #h de ch# #gl de ch#d # i#kh# kh ##define#f d # #kl # hf l #

### OS FLAG ACCEPT EN

OS\_FLAG\_ACCEPT\_EN#h dech # kh # h # #4,# #gl dech # kh # h # #3,#kh#f gh#j h h d l # i#kh#i f l # OSFlagAccept() ## # $^{\prime\prime}$ 

### OS\_FLAG\_DEL\_EN

OS\_FLAG\_DEL\_EN#h dedn # kh # h# #4,# #gl dedn # kh # h# #3,# kh#f gh#jh h d l # i# kh#i f l # OSFlagDel()#

### OS FLAG NAME EN

Wkl #f d #ghh l h #kh kh #l d h #fd #eh#d lj hg# #h h #lodj#j ##Li#Os\_FLAG\_NAME\_EN#I# h # # 0#kl #lhd h#l #gl dechg ###

### OS\_FLAG\_QUERY\_EN

OS\_FLAG\_QUERY\_EN#h dedn # kh # h# #4,# #gl dedn # kh # h# #3,#kh#f gh#jh h d l # i#kh#f f l # OSFlagQuery()##
#

### OS FLAG WAIT CLR EN

OS\_FLAG\_WAIT\_CLR\_EN#h dech # kh # h # #4,# #gl dech # kl # h # #3,#kh#f gh#jh h d l # hg # # dl # i #h h #iodj # #eh#3#l hdg# i#4# h h doo # # d # # dl # # h h #iodj # #eh#h # h h # # ljk # do # d # # dl #i #h h #iodj # #eh#fchd #d g#k # # hhg# #h dech#kl # l 1# #

### OS FLAGS NBITS

OS\_FLAGS\_NBITS#kd#ehh#l g fhg#l#Y51;3#d g# hflilh#kh#l eh#i#el# hg#l#h h #lodj#d g#P VW#eh#hlkh#,#49# #65#

## Message Mailboxes

### OS MBOX EN

Wkl#f d #h dech # kh # h # #4,# #gldedh # kh # h # #3,# kh#f gh#jh h d l # i#add# h djoh0 dloe # h lfh #d g#gdd# f h # klfk# hg fh # kh##d # i#f gh# dfh# hhghg# kh # #d dfd l #g h # # h l h# kh# h# i# h djoh# dloe h # kh #os\_mbox\_en# # h # #3,# kh#f gh#jh h d l # i#add# h djoh# dloe h # kh #os\_mbox\_en# # h # # # # # hhg# # h dech# #gldech#d # i#kh# kh ## define#f d # # kl # hf l #

### OS MBOX ACCEPT EN

Wkl $\overline{\#f}$  d #h dech #h kh #h # 4,# #gl dech #h kh #h # 43,#h kh#f gh#jh h d l #h i#h kh#i f l #h OSMboxAccept() #h

### OS MBOX DEL EN

### OS MBOX PEND ABORT EN

OS\_MBOX\_PEND\_ABORT\_EN#h de ch # kh # h# #1,# #gl de ch # kh # h# #0,# kh#f gh# h h d l # i# kh# i f l #DSMboxPendAbort()  $\sharp\sharp$ #

### OS\_MBOX\_POST\_EN

### OS MBOX POST OPT EN

### OS MBOX QUERY EN

### 

### OS MEM QUERY EN

# Mutual Exclusion Semaphores

### DS MUTEX EN

DS\_MUTEX\_EN#h de ch # kh # h # #4,# #gl de ch # kh # h # #3,#kh#f gh#jh h d l # i#a 1# do0h fo l 0 h d k h# h lfh #d g#gd d# f h # klfk# hg fh # kh#d # i#f gh#d g#gd d# dfh# hhghg#06 #,0; ,9 hh,gI #f 5 kW

## Message Queues

### OS Q EN

OS\_Q\_EN#h de ch # kh # h # #4,# #g de ch # kh # h # #3,# kh#f gh#j h h d l # i#al# h d j h 0 h h # h l f h # d g#ed d# f h # klfk# hg f h # kh#d # i#f gh# df h# hhghg# kh # # # # d df d l #g h # # h l h# kh# h d j h# h h h # kh # \de ch # \de ch # d f h # kh # kh # \de ch # d g h # # h l h# kh # \de ch # d g h # h h l # kh # \de ch # d g h # h h l h # kh # \de fine#f d # l # kl # h f l # h# kd # li#OS\_Q\_EN#l # h # # # # \de fine#f d # \de ch # \de fine#f \de d \de ch # \de fine#f \de

### OS Q ACCEPT EN

OS\_Q\_ACCEPT\_EN#h de ch # kh # h # #4,# #gl de ch # kh # h # #3,# kh#f gh#j h h d l # i# kh#i f l # OSQAccept()  $\sharp$ # #

### OS Q DEL EN

### OS Q FLUSH EN

### OS Q PEND ABORT EN

OS\_Q\_PEND\_ABORT\_EN#h dedh # kh # h # #4,# #gl dedh # kh # h # #3,#kh#f gh# h h d l # i#kh#i f l # OSQPendAbort() ## #

### OS Q POST EN

OS\_Q\_POST\_EN#h dech# kh#h##4,##gldech# kh#h##3,#kh#f gh#jhhdl# i#kh#i fl#OSQPost()## #fd#gldech#f gh#jh hdl# i#kl#i fl#li# #ghflgh## h#kh## h# hi d# fl#OSQPostOpt()## hdg### #

### OS Q POST FRONT EN

### OS Q POST OPT EN

### OS\_Q\_QUERY\_EN

### **Semaphores**

### OS SEM EN

OS\_SEM\_EN#h de ch # kh # h # #4,# #gl de ch # kh # h # #3,#all#f gh#jh h d l # i#kh# F2R VOLL# h d k h# d djh #d g#l #d fld hg#gd d# f h # klfk# hg fh #kh#d # i#f gh#d g#gd d# dfh# hhghg# kh # # d dfd l #g h # # h l h#kh# h# i# h d k h # kh #os\_sem\_en#l # h # #B# #g # # hhg# #h de ch## gl de dh#d # i#kh# kh ##define#f d # kh # hf l ##

### OS SEM ACCEPT EN

OS\_SEM\_ACCEPT\_EN#h dech # kh # h # #4,# #gl dech # kh # h # #3,#kh#f gh#j h h d l # i# kh#i f l # OSSemAccept() ## # #4,# #gl dech # kh # h # #3,#kh#f gh#j h h d l # i# kh#i f l # #  $^{\prime\prime}$ 

### OS SEM DEL EN

### OS SEM PEND ABORT EN

OS\_SEM\_PEND\_ABORT\_EN#h de ch # kh # h# #4,# #gl de ch # kh # h# #3,# kh#f gh#j h h d l # i# kh# i f l #DSSemPendAbort()  $^{\text{H}}$ #

### OS SEM QUERY EN

### OS SEM SET EN

# Task Management

### OS TASK TMR STK SIZE

os\_task\_tmr\_stk\_size# hflilh#kh#lh#i#kh#F2RVOUD#lh#lh#dn#dfn#Wkh#lh#l# hflilhg# #l#e h# e #l# ehr#i#nkh h #Wkl#l#ehfd h#d#dfn#l#ghfodhg# #eh#i# h#os\_stk#Wkh#lh#i#kh#lhodn# dfn#ghhg# #kh# fh # #dh#lj#kh#fdocedfn# fl#kd#loo#eh#hhf hg#kh#hdfk#i#kh# lh#lh## #dg#kh#gnhh#dlfldhg#...h 0hlj#dhha##

### OS TASK STAT STK SIZE

OS\_TASK\_STAT\_STK\_SIZE# hflilh #kh#l h# i#kh# F2R VLI# d1 lf0 d n# dfn #Wkh#l h# # hflilhg# # # # e h #e # # eh # i#hdh h #Wkl # #ehfd h#d# dfn # #phfd hg #d ie hl j # i # h#OS\_STK #Wkh#l h# i#kh# d1 lf0 d n# dfn #gh h g # #kh# fh # #d h# lj#d g#kh# d l # i#kh# ф l j#d fl #

- # Wkh# dfn#j k#d fld hg# lk# hil lj#650el #dllk hlf# e dfl #d g#glll ,#
- # Wkh# dfn#j k#d fld hg# l k#fdod j#DSTimeDly()
- # Wkh# dfn#j k#d fld hg# l k#fdod j#DSTaskStatHook()
- # Wkh#ghh h #d lfl d hg#l h 0 h l j#dh ho#

### OS TASK IDLE STK SIZE

### OS TASK CHANGE PRIO EN

OS\_TASK\_CHANGE\_PRIO\_EN#h dech# kh#h##4,# #gldech# kh#h##3,#kh#f gh#jhhdl# i#kh#i fl#OSTaskChangePrio()#Ai# #d dfdl#h h#kd jh#d n#ll#h#dih#kh#d h#d lj hg##

fd#hgfh#kh#d #i#fgh# dfh# hg#e#F2RVOII#e#hlj#os\_TASK\_CIPNGE\_PRIO\_EN##8##

#

### OS TASK CREATE EN

### OS TASK CREATE EXT EN

OS\_TASK\_CREATE\_EN#h dech # kh # h # 44,# #gl dech # kh # h # #3,# kh#f gh#j h h d l # i#kh# f l # OSTASKCreateExt()# klfk#l #kh#h h ghg# h# h i o# h # i#kh# #d n0f hd l # i #kh# f l # # d dfd l # h h # h #OSTASKCreateExt()# #fd # hg fh#kh#d # i#f gh# dfh# hg#e # F2R VOII#e # h l j#OS\_TASK\_CREATE\_EXT\_EN# #3# h#kd# # hhg#kh#h h ghg#d n0f hd h# f l # # kh# df n0 fkhfnl j#i f l #OSTASKSTKChk()##

### OS TASK DEL EN

OS\_TASK\_DEL\_EN#h dedn # kh # h# #1,# #gl dedn # kh # h# #0,#f gh#jh h dl # i# h#i fl #
OSTaskDel()# klfk#ghdn h #d n #Mi# #d dddl # h h # h #kl # fl # #fd # hg fh#kh#d # i#
f gh# dfh# hg# # F2R VOIL#e # h l j#DS\_TASK\_DEL\_EN# #D#

### OS TASK NAME EN

WKI#E d #ghh l h # khkh# #Ed #d h # #d n 1#Hi#Os\_task\_name\_en#1 #h h # 18 #k1 #ihd h# #gl de chg#d g# #UDP #1 # hg#1 #kh#Os\_tob# #kh#d n#1 d h1###

### DS TASK PROFILE EN

Wkl#f d #doo # dldech # #eh#doo fdhg#l #hdfk#dn #os\_tob#kd#k og# hi d fh#gdd#de #hdfk# dnl##Vhflilfdoo #li#os\_task\_profile\_en # | #h # # #hdfk#dn#loo#kdh#d#dldech# #hhh # dfn#i#kh# eh #i#f h # lfkh #kh#dn#hhfl #lh#kh# eh #i#e h #hg#e #kh#dn#dg# hl#

### OS TASK QUERY EN

OS\_TASK\_QUERY\_EN#h dedn # kh # h# #1,# #gl dedn # kh # h# #0,#f gh#jh h dl # i#kh#i fl #
OSTaskQuery() # klfk#doo # #d dfdl # #jh #d# d k # i#d#f h # d n #OS\_TCB#Li# #
d dfdl # h h # h #kl #i fl # #fd # hg fh#kh#d # i#f gh# dfh# hg#e # F2R VOIL#e # h l j#
OS\_TASK\_QUERY\_EN# #0#

### OS TASK STAT EN

OS\_TASK\_STAT\_EN# hflilh # kh kh # # #fd #h de d# kh# F2R VXII# dl lf# d n#d # hod#d #l # l ldd dl #i fl # kh # h # 44# kh# dl lf# d n#os\_TaskStat()#d g# kh# dl lf0 d n0l ldd dl # i fl #d h#h de dg #os\_TaskStat()#l h #kh#FS # dj # i# #d dfdl ## kh #h de dng/# #h hf h # h h # hf g#d g#l h #kh#, 0el# dlde dh#osCPUUsage# k fk# lgh #kh# h fh dj h# i#FS # h# i# # d dfdl #os\_TaskStat()#fdoo#osTaskStatHook()#h h #l h#h hf h # #kd # #fd #dgg# # # dl lf #d #hhghg #Vhh#os\_CORE.C#i #gh dlo# #kh# dl lf#d n#Wkh# l l # i#os\_TaskStat()#l #do d # h # #os\_Lowest\_PRIO-1##

Wkh#joedo#dldech#oscpuusage#osidlectrMax#osidlectrRun#ostaskStatstk[]#dg#osstatRdy#dh# #ghfodhg#kh#os\_task\_stat\_en# #b# klfk#hg fh#kh#d #i#UDP#hhghg#e#F2RWII#li# #g #lhg## h#kh#ddllf#dnl#osidlectrRun#f dl#d#d k#i#UDP#hhghg#e#F2RWII#li##dhdhg##hh#hh h#hh# hh# h#hghg##d k#kh#d #kh#d #kh##d #kh##d

### OS TASK STAT STK CHK EN

Wkl#f d #doo # kh# dl lf# d n# #ghh l h# kh# df do# dfn# djh# i#hdfk# df l n# d n## Li#
OS\_TASK\_STAT\_EN# # h# #0# kh# dl lf# d n#l # #h de chg, #e # #fd #fdoo#OS\_TaskStatStkChk()#
hoi#i # h# i# #d n ##If OS\_TASK\_STAT\_EN# | # h# #1 # dfn# | h # loo#e h#gh h | l hg#h h #
hf g#e #kh# dl lf#d n#

### OS TASK SUSPEND EN

OS\_TASK\_SUSPEND\_EN#h dech# kh#h##1,##gldech# kh#h##0,#fgh#jhhdl#i#kh#i fl#
OS\_TASKSUSPEND\_()#d g#OSTASH\_Resume()# klfk#doo # # #h dfld# h g#d g#h h# d n #
h hflhol#Li# #d dfdl# h h# h#khh# fl ##fd#hgfh#kh#d # i#fgh# dfh# hg#e#
F2RWII## #h lj#OS\_TASK\_SUSPEND\_EN #D#

### OS TASK SW HOOK EN

dow # F2RV01#h lh#kd# #kd h#d#f h # lfk\* n# fl #fdochg#OSTaskSwHook()# kh#h# #0#kl#f d #dow # # # l#OSTaskSwHook()## # #f gh##Wkl#f ilj dl #f d # d # d # dgghg# #hg fh#kh#d # i# h khdg#g l #d#f h # fk#!# # h h# kh#f dow # oSTaskSwHook()# i # OSTaskStartHighRdy()#OSCtxSw()#d g#OSIntCtxSw()# #OS\_CPU\_A.ASM## #

### OS TASK TMR PRIO (APP CFG.H

OS\_TASK\_TMR\_PRIO# hflilh #kh# l l # i#kh#l l # d d h h # d n l## # f d # h # kh# l l # i#kh#l h # d n# # d kl j# # d l## h# kd # l h # f docedf n# i f l # d h# h hf hg# e # kh#l l h # d n l## OS\_TASK\_TMR\_PRIO# hhg # #e h# h # l # d df d l # l dh#f dochg#APP\_CFG.H## #  $\frac{1}{4}$ 

### Time Management

### OS TIME DLY HMSM EN

OS TIME DLY HMSM EN#h dech # kh #h# #4,# #gl dech # kh #h# #3,#kh#f gh#h h dl # i#kh# fl # OSTIMEDLYHMSM() # klfk#l # hg# #ghod #d# d n#i #d# hflilhg# eh # i#k # l h # hf g #d g#

### OS TIME DLY RESUME EN

OS TIME DLY RESUME EN#h de dh # kh # h# #4,# #gl de dh # kh # h# #3,# kh#f gh#j h h d l # i# kh#i fil #DSTimeDlyResume()# #

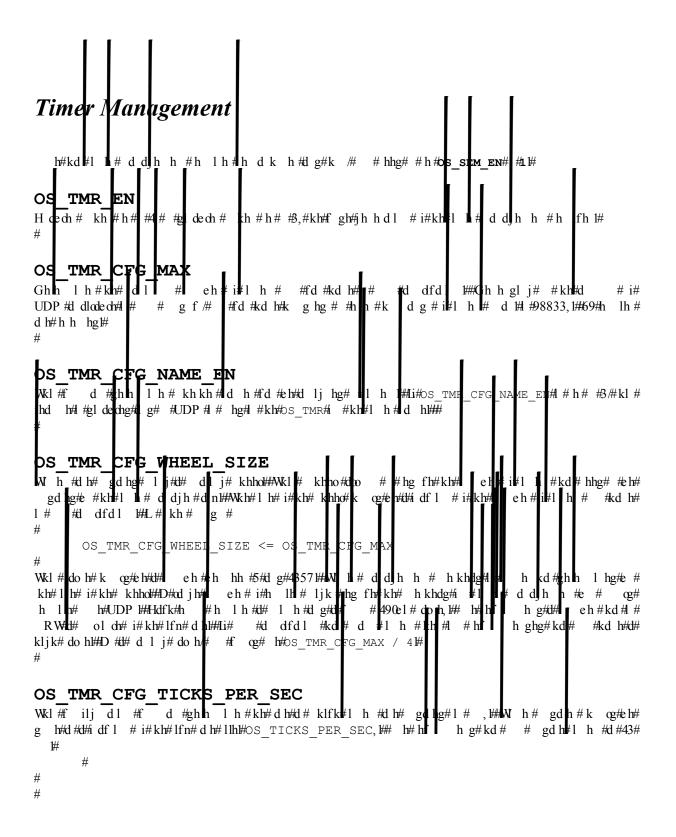
### OS TIME GET SET EN

#

1 #DSTimeGet()#dig#DSTimeSet()#Hi# #g # hhg# # h#kh#650el#lfn#f h#DSTime/#kh# # f¢ d h# hoi#7#e h#i#gdd# dfh#d g#fgh# dfh#e ###kdlj#kl#fgh#i #kh h#i fl #jh hdhg#e# lch ⊯

### OS TIME TICK HOOK EN

kd #g h #h l h#kl #k n 1##



## Function Summary

#

Wde d# 4: 14#d #hdfk# F2R V0IJ#i f l #e # h# Service, #l glfd h # klfk# d lde dh #h de dh# kh#f gh#
Set to 1, #d g#d # kh #f ilj d l #f d #kd #diihf #kh#l f l #Other Constants, #

Ri#f h/#ps\_cfg.le# #eh#l foghg#kh #F2RW0U#l#e lo/#l #gh #l #kh#gh l hg#f ilj d l ##dnh#hiihf ##

Table 17.1  $\mu$ C/OS-II functions and #define configuration constants.

Service	Set to 1	Other Constants
Miscellaneous		
Thread Local Storage (TLS)	OS_TLS_TBL_SIZE (set to 5)	2D#
OSEventNameGet()	OS_EVENT_NAME_EN	2D#
OSEventNameSet()	OS_EVENT_NAME_EN	2D#
OSEventPendMulti()	OS_EVENT_MULTI_EN	#
OSInit()	2D#	OS_MAX_EVENTS OS_Q_EN and OS_MAX_QS OS_MEM_EN OS_TASK_IDLE_STK_SIZE OS_TASK_STAT_EN OS_TASK_STAT_STK_SIZE
OSSafetyCriticalStart()	OS_SAFETY_CRITICAL_IEC61508	#
OSSchedLock()	OS_SCHED_LOCK_EN	2D#
OSSchedUnlock()	OS_SCHED_LOCK_EN	2D#
OSStart()	2D#	2D#
OSStatInit()	OS_TASK_STAT_EN && OS_TASK_CREATE_EXT_EN	OS_TICKS_PER_SEC
OSVersion()	<b>2</b> D#	<b>2</b> D#
Interrupt Management		
OSIntEnter()	2D#	2D#
OSIntExit()	2D#	2D#
<b>Event Flags</b>		
OSFlagAccept()	OS_FLAG_EN	OS_FLAG_ACCEPT_EN
OSFlagCreate()	OS_FLAG_EN	OS_MAX_FLAGS
OSFlagDel()	OS_FLAG_EN	OS_FLAG_DEL_EN
OSFlagNameGet()	OS_FLAG_EN	OS_FLAG_NAME_EN
OSFlagNameSet()	OS_FLAG_EN	OS_FLAG_NAME_EN
OSFlagPend()	OS_FLAG_EN	OS_FLAG_WAIT_CLR_EN
OSFlagPost()	OS_FLAG_EN	<b>2</b> D#
OSFlagQuery()	OS_FLAG_EN	OS_FLAG_QUERY_EN

#		
Message Mailboxes		
OSMboxAccept()	OS_MBOX_EN	OS_MBOX_ACCEPT_EN
OSMboxCreate()	OS_MBOX_EN	OS_MAX_EVENTS
OSMboxDel()	OS_MBOX_EN	OS_MBOX_DEL_EN
OSMboxPend()	OS_MBOX_EN	2D#
OSMboxPendAbort()	OS_MBOX_EN	OS_MBOX_PEND_ABORT_EN
OSMboxPost()	OS_MBOX_EN	OS_MBOX_POST_EN
OSMboxPostOpt()	OS_MBOX_EN	OS_MBOX_POST_OPT_EN
OSMboxQuery()	OS_MBOX_EN	OS_MBOX_QUERY_EN
Memory Partition Managen	nent	
OSMemCreate()	OS_MEM_EN	OS_MAX_MEM_PART
OSMemGet()	OS_MEM_EN	2D#
OSMemNameGet()	OS_MEM_EN	OS_MEM_NAME_EN
OSMemNameSet()	OS_MEM_EN	OS_MEM_NAME_EN
OSMemPut()	OS_MEM_EN	<b>2</b> D#
OSMemQuery()	OS_MEM_EN	OS_MEM_QUERY_EN
Mutex Management		
OSMutexAccept()	OS_MUTEX_EN	OS_MUTEX_ACCEPT_EN
OSMutexCreate()	OS_MUTEX_EN	OS_MAX_EVENTS
OSMutexDel()	OS_MUTEX_EN	OS_MUTEX_DEL_EN
OSMutexPend()	OS_MUTEX_EN	2D#
OSMutexPost()	OS_MUTEX_EN	2D#
OSMutexQuery()	OS_MUTEX_EN	OS_MUTEX_QUERY_EN
Message Queues		
OSQAccept()	OS_Q_EN	OS_Q_ACCEPT_EN
OSQCreate()	OS_Q_EN	OS_MAX_EVENTS
0000 1 ()	00 0 77	OS_MAX_QS
OSQDel()	OS_Q_EN	OS_Q_DEL_EN
OSQFlush()	OS_Q_EN	OS_Q_FLUSH_EN
OSQPend()	OS_Q_EN	2D#
OSQPendAbort()	OS_Q_EN	OS_Q_PEND_ABORT_EN
OSQPost()	OS_Q_EN	OS_Q_POST_EN
OSQPostFront()	OS_Q_EN	OS_Q_POST_FRONT_EN
OSQPostOpt()	OS_Q_EN	OS_Q_POST_OPT_EN
OSQQuery()	OS_Q_EN	OS_Q_QUERY_EN

#		
Semaphore Management		
OSSemAccept()	OS_SEM_EN	OS_SEM_ACCEPT_EN
OSSemCreate()	OS_SEM_EN	OS_MAX_EVENTS
OSSemDel()	OS_SEM_EN	OS_SEM_DEL_EN
OSSemPend()	OS_SEM_EN	2D#
OSSemPendAbort()	OS_SEM_EN	OS_SEM_PEND_ABORT_EN
OSSemPost()	OS_SEM_EN	2D#
OSSemQuery()	OS_SEM_EN	OS_SEM_QUERY_EN
OSSemSet()	OS_SEM_EN	OS_SEM_SET_EN
Task Management		
OSTaskChangePrio()	OS_TASK_CHANGE_PRIO_EN	OS_LOWEST_PRIO
OSTaskCreate()	OS_TASK_CREATE_EN	OS_MAX_TASKS
OSTaskCreateExt()	OS_TASK_CREATE_EXT_EN	OS_MAX_TASKS OS_TASK_STK_CLR
OSTaskDel()	OS_TASK_DEL_EN	OS_MAX_TASKS
OSTaskDelReq()	OS_TASK_DEL_EN	OS_MAX_TASKS
OSTaskRegGet()	OS_TASK_REG_TBL_SIZE	N/A
OSTaskRegGetID()	OS_TASK_REG_TBL_SIZE	N/A
OSTaskRegSet()	OS_TASK_REG_TBL_SIZE	N/A
OSTaskResume()	OS_TASK_SUSPEND_EN	OS_MAX_TASKS
OSTaskNameGet()	OS_TASK_NAME_EN	2D#
OSTaskNameSet()	OS_TASK_NAME_EN	2D#
OSTaskStkChk()	OS_TASK_CREATE_EXT_EN	OS_MAX_TASKS
OSTaskSuspend()	OS_TASK_SUSPEND_EN	OS_MAX_TASKS
OSTaskQuery()	OS_TASK_QUERY_EN	OS_MAX_TASKS
OS_TaskStatStkChk()	OS_TASK_STAT_STK_CHK_EN	2D#
Time Management		
OSTimeDly()	2D#	<b>2</b> D#
OSTimeDlyHMSM()	OS_TIME_DLY_HMSM_EN	OS_TICKS_PER_SEC
OSTimeDlyResume()	OS_TIME_DLY_RESUME_EN	OS_MAX_TASKS
OSTimeGet()	OS_TIME_GET_SET_EN	2D#
OSTimeSet()	OS_TIME_GET_SET_EN	<b>2</b> D#
OSTimeTick()	2D#	2D#
Timer Management		
OSTmrCreate()	OS_TMR_EN	N/A
OSTmrDel()	OS_TMR_EN	N/A
OSTmrNameGet()	OS_TMR_EN && OS_TMR_CFG_NAME_EN	N/A
OSTmrRemainGet()	OS_TMR_EN	N/A
OSTmrStart()	OS_TMR_EN	N/A
OSTmrStop()	OS_TMR_EN	N/A
OSTmrSignal()	OS_TMR_EN	OS_TMR_CFG_TICKS_PER_SEC

<b>User-Defined Functions</b>		
OSTaskCreateHook()	OS_CPU_HOOKS_EN	<b>2</b> D#
OSTaskDelHook()	OS_CPU_HOOKS_EN	<b>2</b> D#
OSTaskStatHook()	OS_CPU_HOOKS_EN	<b>2</b> D#
OSTaskSwHook()	OS_CPU_HOOKS_EN	OS_TASK_SW_HOOK_EN
OSTimeTickHook()	OS_CPU_HOOKS_EN	OS_TIME_TICK_HOOK_EN#