

## OS Abstractor with POSIX

The table below lists the POSIX API support offered across various OS platforms. Please note that there may be more POSIX API support available on some selected OS and also support for new APIs are constantly added in newer releases. Please contact MapuSoft to find out the latest POSIX API support for your target OS platform.

POSIX API	VxWorks 5.x	VxWorks <sup>1</sup> 6.x	Nucleus	Win XP	Win CE	ThreadX	MQX	T-Kernel <sup>2</sup>	ITRON
<b>POSIX Threads</b>		See Note							
pthread_attr_getinheritsched	√		√	√	√	√	√	√	√
pthread_attr_getschedpolicy	√		√	√	√	√	√	√	√
pthread_attr_getscope	√		√	√	√	√	√	√	√
pthread_attr_setinheritsched	√		√	√	√	√	√	√	√
pthread_attr_setschedpolicy	√		√	√	√	√	√	√	√
pthread_attr_setscope	√		√	√	√	√	√	√	√
pthread_attr_getstackaddr	√		√	√	√	√	√	√	√
pthread_attr_setstackaddr	√		√	√	√	√	√	√	√
pthread_attr_getstacksize	√		√	√	√	√	√	√	√
pthread_attr_setstacksize	√		√	√	√	√	√	√	√
pthread_attr_destroy	√		√	√	√	√	√	√	√
pthread_attr_getdetachstate	√		√	√	√	√	√	√	√
pthread_attr_getschedparam	√		√	√	√	√	√	√	√
pthread_attr_init	√		√	√	√	√	√	√	√
pthread_attr_setdetachstate	√		√	√	√	√	√	√	√
pthread_attr_setschedparam	√		√	√	√	√	√	√	√
pthread_attr_getstack	√		√	√	√	√	√	√	√
pthread_attr_setstack	√		√	√	√	√	√	√	√
pthread_create	√		√	√	√	√	√	√	√
pthread_setcancelstate	√		√	√	√	√	√	√	√
pthread_cancel	√		√	√	√	√	√	√	√
pthread_testcancel	√		√	√	√	√	√	√	√
pthread_detach	√		√	√	√	√	√	√	√
pthread_equal	√		√	√	√	√	√	√	√
pthread_exit	√		√	√	√	√	√	√	√
pthread_getspecific	√		√	√	√	√	√	√	√
pthread_join	√		√	√	√	√	√	√	√
pthread_key_create	√		√	√	√	√	√	√	√
pthread_key_delete	√		√	√	√	√	√	√	√
pthread_once	√		√	√	√	√	√	√	√
pthread_self	√		√	√	√	√	√	√	√
pthread_setcanceltype	√		√	√	√	√	√	√	√
pthread_setspecific	√		√	√	√	√	√	√	√
pthread_sigmask	√		√	√	√	√	√	√	√
pthread_getschedparam	√		√	√	√	√	√	√	√
pthread_cleanup_pop	√		√	√	√	√	√	√	√
pthread_cleanup_push	√		√	√	√	√	√	√	√
<b>Mutex</b>									
pthread_mutex_timedlock	√		√	√	√	√	√	√	√
pthread_mutexattr_getprotocol	√		√	√	√	√	√	√	√
pthread_mutex_getprioceiling	√		√	√	√	√	√	√	√
pthread_mutex_setprioceiling	√		√	√	√	√	√	√	√
pthread_mutexattr_getprioceiling	√		√	√	√	√	√	√	√
pthread_mutexattr_setprioceiling	√		√	√	√	√	√	√	√



POSIX API	VxWorks 5.x	VxWorks <sup>1</sup> 6.x	Nucleus	Win XP	Win CE	ThreadX	MQX	T-Kernel <sup>2</sup>	ITRON
pthread_condattr_getclock	√		√	√	√	√	√	√	√
pthread_condattr_setclock	√		√	√	√	√	√	√	√
pthread_condattr_getshared	√		√	√	√	√	√	√	√
pthread_condattr_setshared	√		√	√	√	√	√	√	√
pthread_cond_broadcast	√		√	√	√	√	√	√	√
pthread_cond_destroy	√		√	√	√	√	√	√	√
pthread_cond_init	√		√	√	√	√	√	√	√
pthread_cond_signal	√		√	√	√	√	√	√	√
pthread_cond_timedwait	√		√	√	√	√	√	√	√
pthread_cond_wait	√		√	√	√	√	√	√	√
pthread_condattr_destroy	√		√	√	√	√	√	√	√
pthread_condattr_init	√		√	√	√	√	√	√	√
<b>Clock</b>									
clock	√		√	√	√	√	√	√	√
clock_getres	√		√	√	√	√	√	√	√
clock_gettime	√		√	√	√	√	√	√	√
clock_settime	√		√	√	√	√	√	√	√
clock_nanosleep	√		√	√	√	√	√	√	√
sleep	√		√	√	√	√	√	√	√
usleep	√		√	√	√	√	√	√	√
nanosleep	√		√	√	√	√	√	√	√
sched_yield	√		√	√	√	√	√	√	√
<b>Barriers</b>									
pthread_barrierattr_destroy	√		√	√	√	√	√	√	√
pthread_barrierattr_getshared	√		√	√	√	√	√	√	√
pthread_barrierattr_init	√		√	√	√	√	√	√	√
pthread_barrierattr_setshared	√		√	√	√	√	√	√	√
<b>Spin Locks</b>									
pthread_spin_destroy	√		√	√	√	√	√	√	√
pthread_spin_init	√		√	√	√	√	√	√	√
pthread_spin_lock	√		√	√	√	√	√	√	√
pthread_spin_trylock	√		√	√	√	√	√	√	√
pthread_spin_unlock	√		√	√	√	√	√	√	√
<b>Timers</b>									
timer_create	√		√	√	√	√	√	√	√
timer_delete	√		√	√	√	√	√	√	√
timer_gettime	√		√	√	√	√	√	√	√
timer_settime	√		√	√	√	√	√	√	√
<b>Miscellaneous</b>									
glob	√		√	√	√	√	√	√	√
globfree	√		√	√	√	√	√	√	√
getenv	√		√	√	√	√	√	√	√
setenv	√		√	√	√	√	√	√	√
clock_getcpuclockid	√		√	√	√	√	√	√	√

<sup>1</sup> Extensive POSIX level and other standard's compliance is provided on VxWorks 6.x OS platform.

<sup>2</sup> Additional POSIX support is available on T-Kernel platform

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