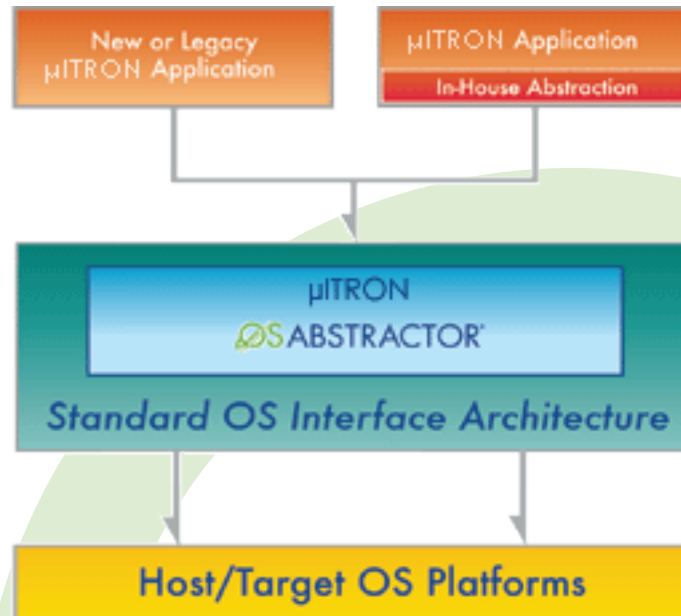


Write Portable Code - Protect Your Investment

μITRON OS Abtractor provides a popular μITRON 4.0 Japanese industry standard OS interface architecture for flexible application development and re-use of μITRON based applications across multiple OS platforms. μITRON OS Abtractor eliminates the risks associated with selecting an OS and dependency on a single vendor. μITRON OS Abtractor allows your application to easily adapt to multiple operating systems with a standard μITRON OS interface, thereby reducing costs associated with code maintenance and learning multiple operating systems.



μITRON OS Abtractor Highlights

- Vendor independent and Japanese industry standards based solution protects your code investment and knowledge-base
- Efficiently leverage μITRON based applications in your current design regardless of the underlying OS
- Get to market faster with compelling μITRON based applications and content in your design
- Tap into the large talent pool of engineers with μITRON development experience
- Offers a high level of code re-usability across many supported μITRON and non-μITRON operating systems and versions
- Offers scalability at component & individual feature levels to lower memory foot-print
- Set limit on individual application's heap memory
- Highly optimized for speed and memory footprint for each specific target OS
- Includes BASE OS Abtractor APIs for added flexibility in your development (refer to BASE OS Abtractor Datasheet)
- Easily connects to your in-house abstraction solution
- Easily extended to support your proprietary OS to enable μITRON compliance and/or to re-use popular μITRON source solutions
- Offered royalty free and with source code

Using μITRON OS Abtractor

μITRON OS Abtractor is designed for use as a fully scalable C library. Services used inside your application software are extracted from the μITRON OS Abtractor libraries and are combined with the other application objects to produce the complete image. This image may be downloaded to the target platform or placed in ROM on the target platform. Application developers need to specify the OS for the application and also include the required μITRON OS Abtractor libraries while building the application. Developers can also select the individual μITRON OS Abtractor components that are needed and exclude the ones that are not required.

μITRON OS Abtractor API Support

The table below lists the μITRON API support offered across various OS platforms. MapuSoft's supported target operating systems include: VxWorks® 5x/6x, Windows® CE/Mobile/XP/Vista, Linux®/RT Linux®, LynxOS®/LynxOS-SE®, MQX®, Solaris®, Unix®, Nucleus®, ThreadX®, T-Kernel®, QNX® and eCOS®. Please note that MapuSoft may provide further support to include additional APIs or operating systems not listed. For a current listing visit <http://mapusoft.com/products/offerings> or email: info@mapusoft.com

μITRON APIs			
<i>Task Management</i>	<i>Data Queues</i>	<i>Fixed-Size Memory Pools</i>	<i>Alarm Handlers</i>
cretsk	cre_dtq	cre_mpf	cre_alm
acre_tsk	acre_dtq	acre_mpf	acre_alm
del_tsk	del_dtq	del_mpf	del_alm
act_tsk	snd_dtq	get_mpf	sta_alm
exd_tsk	psnd_dtq	pget_mpf	stp_alm
ter_tsk	tsnd_dtq	tget_mpf	
chg_pri	fsnd_dtq	rel_mpf	Event Flags
get_pri	rcv_dtq		cre_flg
	prcv_dtq	Variable-Size Memory Pools	acre_flg
Task Dependent Synchronization	trcv_dtq	cre_mpl	del_flg
slp_tsk		acre_mpl	set_flg
tslp_tsk	Mutexes	del_mpl	clr_flg
wup_tsk	cre_mtx	get_mpl	wai_flg
can_wup	acre_mtx	pget_mpl	pol_flg
sus_tsk	del_mtx	tget_mpl	twai_flg
rsm_tsk	loc_mtx	rel_mpl	
frsm_tsk	ploc_mtx		Cyclic Handlers
dly_tsk	tloc_mtx	Message Buffers	cre_cyc
	unl_mtx	cre_mbf	acre_cyc
Semaphores		acre_mbf	del_cyc
cre_sem	System State Management	del_mbf	sta_cyc
acre_sem	get_tim	snd_mbf	stp_cyc
del_sem	set_tim	psnd_mbf	
sig_sem	get_tid	tsnd_mbf	
wai_sem		rcv_mbf	
pol_sem		prcv_mbf	
twai_sem		trcv_mbf	

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Porting embedded applications from one OS to another OS is often an underestimated, tedious and time-consuming task. It also requires expensive and skillful resources that take away the focus on building your product. Embedded applications demand more and more performance, scalability and development flexibility from the underlying OS. Developers are forced to change their OS or extend support for more than one OS quickly as the market demands. Developers find that they need to leverage the existing software and knowledge base when migrating to next generation platforms. This has brought a need for the development of highly re-usable software that can run across proprietary and multiple commercial operating systems as well as utilizes open source components or other low cost alternatives.

It's not easy for developers to adapt existing software to a new OS or enable it to support multiple operating systems without incurring high costs and increasing time to market entry. MapuSoft offers OS PAL, OS Abtractor and OS Changer products to help developers streamline development processes and re-use their embedded software on one or more operating systems. MT offers porting, integration, support and training services to help developers easily migrate from legacy platforms to the next generation.

MapuSoft Custom Services

- Provide full porting, integration and validation services
- Extend OS Changer APIs
- Migrate in-house abstraction to OS Abtractor framework
- Add OS Abtractor support to your proprietary operating system
- Offer on-site and off-site training on operating systems and advanced porting techniques

FREE μ ITRON OS Abtractor Trial Software

Go to: www.mapusoft.com/downloads

➤ Receive 30 days of FREE technical support!

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