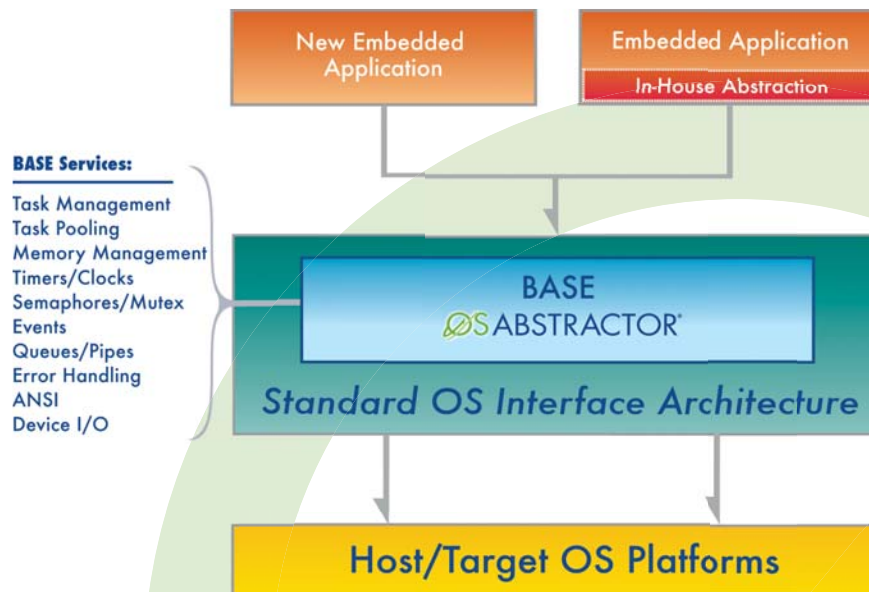


Write Portable Code - Protect Your Investment

Developing a solid software architecture that can run on multiple OS requires considerable planning, development and testing as well as up front costs associated with the purchase of various OS and tools to validate your software. The OS Abtractor solution is an effective and economical alternative. OS Abtractor provides you a robust and standard OS interface architecture for flexible application development while eliminating the risks associated with selecting an OS and dependency on a single vendor. OS Abtractor makes your application adapt to multiple operating system platforms with a standard OS interface, thereby reducing cost associated with code maintenance and learning multiple operating systems. An optional add-on is available to BASE OS Abtractor to include POSIX APIs. Please refer to the POSIX OS Abtractor datasheet for more information.



BASE OS Abtractor Highlights

- > Protects software investment by enabling efficient software re-use across multiple platforms
- > Minimizes the learning curve associated with adopting a new OS through the use of one set of intuitive & flexible APIs across multiple operating systems
- > Provides advanced development features
 - Real-time enhancements and other OS features
 - Unique process features enables independent development of complex and multiple applications
 - Dynamic application re-configuration and restart
- > Enhances performance and reduces memory footprint
 - Maximizes use of compile-time translations
 - Maximizes use of low-level OS functions
 - Zero data copy of messages - BASE OS Abtractor APIs
 - Static allocation of control blocks
 - Scalability at component & feature levels
 - Provides Task Pooling feature to reuse task envelopes
- > Easily connects to your in-house abstraction solution
- > Easily extended to support your proprietary OS
- > Eliminates time consuming manual updates to applications when upgrading to newer versions of OS
- > Provides an industry standard interface for your proprietary OS
- > Offered royalty free and with source code

OS Abtractor Functions	VxWorks 5x/6x	Solaris/ Unix	Linux/ RT Linux	Win XP/ Vista/ Mobile	Win CE	Nucleus	ThreadX	MOX	LynxOS	eCOS	QNX	T- Kernel	uITRON
OS_Add_To_List	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Remove_From_List	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Add_To_List_By_Index	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Device I/O – ANSI</i>													
OS_Creat	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_unlink	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_remove	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_open	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_close	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_rename	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_read	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_write	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_ioctl	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_chdir	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_getcwd	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_getwd	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>ANSI Format I/O</i>													
OS_Printf	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Sprintf	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Memory Management - ANSI</i>													
OS_malloc	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_free	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Serial Device</i>													
OS_Setup_Serial_Port	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Write_Char_To_Serial	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Signaling</i>													
OS_Control_Signal	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Get_Signal_Handler	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Register_Signal	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Send_Process_Signal	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Send_Task_Signal	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Miscellaneous</i>													
OS_Release_Information	•	•	•	•	•	•	•	•	•	•	•	•	•
OS_Get_System_Info	•	•	•	•	•	•	•	•	•	•	•	•	•

Note: Please refer to the corresponding product reference manuals for Special Notes

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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 BASE OS Abtractor Trial Software

Go to: www.mapusoft.com/downloads

- Receive 30 days of FREE technical support!

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