

Application Common Operating Environment (AppCOE) is a framework of common architecture that promote code-reuse, software interoperability and Cross-OS platform capabilities among systems and devices. It is built on the powerful open source Eclipse framework and integrates all of MapuSoft tools.



Why use AppCOE?

- Provide freedom from code getting locked to a specific platform, protect investment and adds stability to embedded applications
- Supports multiple embedded development languages (C, C++, and Ada) and development API interfaces (OS Abtractor, VxWorks, Linux/POSIX, Windows, micro-ITRON, μ C/OS, FreeRTOS, ThreadX, Nucleus, VRTX, QNX, RTLinux and pSOS)
- Powerful Cross-OS feature generates code to support the following target OS's:

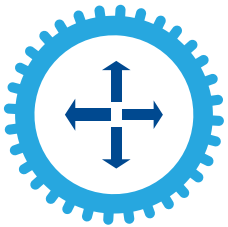
Android	LynxOS-178	NetBSD	Solaris	VxWorks
eCOS	LynxOS-SE	Nucleus	ThreadX	Windows
Linux	μ ITRON	QNXNeutrino RTOS	μ C/OS III	FreeRTOS
LynxOS	Freescale MQX	RT Linux	Unix	In-house
- Profile applications on target to identify performance bottleneck and perform code optimization



OS Changer Porting Kit

Rapid Software Reuse on any Operating System with Performance Optimization

- Re-use your C/C++ software developed for VxWorks, Linux/POSIX, Windows, micro-ITRON, μ C/OS, FreeRTOS, ThreadX, Nucleus, VRTX, QNX, RTLinux and pSOS on another OS
- Refer to this datasheet for more information:
<https://www.mapusoft.com/wp-content/uploads/documents/os-changer.pdf>



Cross-OS Development Platform

Develop Once to Deploy on Multiple Platforms with Ease

- Develop C/C++ software using one or multiple OS Interface options and run the same code base on multiple operating systems
- Refer to this datasheet for more information:
<https://www.mapusoft.com/wp-content/uploads/documents/cross-os-dev-platform.pdf>



OS Abtractor

MapuSoft's OS Abstraction Layer (OSAL)

- Is a commercial-grade OS Abstraction Layer (OSAL) designed without a layered implementation in order to provide better performance at lower cost
- Refer to this web page for more information:
<https://www.mapusoft.com/os-abtractor/>



RTOS Simulator for Developers

Develop, Run and Test Applications on a Virtualized Host Platform

- Develop, run and test embedded applications on Windows or Linux host environments without the need for the original OS or expensive target hardware
- Refer to this web page for more information:
<https://www.mapusoft.com/rtos-simulator-developers>

RTOS Simulator for Academics

Develop, Run and Test Applications on Windows or Linux Host and Test on Hardware

- Cross-compile, Download and Test Applications on various supported Target Hardware
- Refer to this web page for more information:
<https://www.mapusoft.com/rtos-simulator-academic>



Ada-C/C++ Changer

Automatically convert Ada code to C/C++

- Compile Ada code using C/C++ tools and support target platforms not supported by Ada
- Refer to this datasheet for more information:
<https://www.mapusoft.com/convert-ada-to-c/>

Ada - Java Changer

Automatically convert Ada code to Java

- Compile Ada code using Java tools and support target platforms not supported by Ada
- Refer to this datasheet for more information:
<https://www.mapusoft.com/convert-ada-to-java/>



OS Version UpKit

Upgrade Your OS Version without Manual Porting Effort

- Easily upgrade Linux and POSIX applications to a newer version of the OS
- Refer to this web page for more information:
<http://www.mapusoft.com/os-version-upgrade-kit/>



Application-OS Profiler

Gather Performance Data for Your Application and Platform

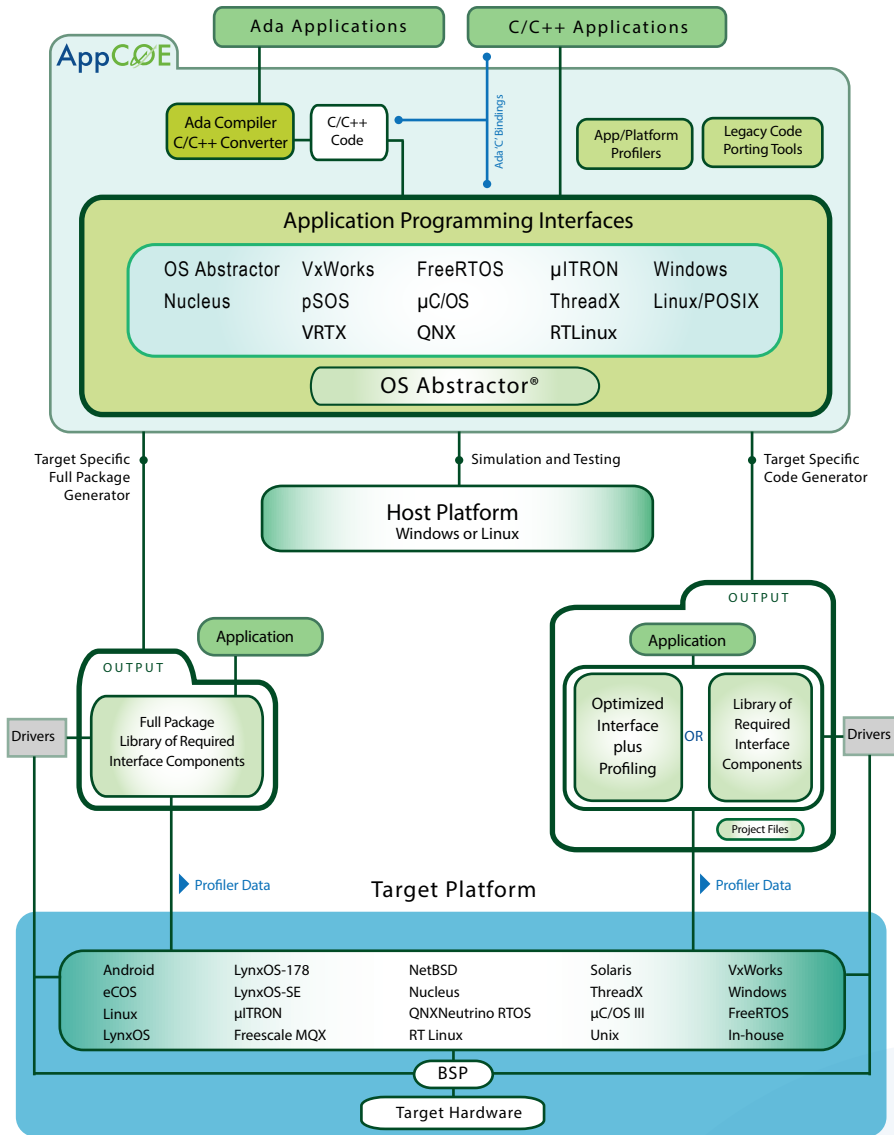
- Identify performance bottlenecks and compare performance metrics on various target environments
- Refer to this web page for more information:
<https://www.mapusoft.com/appcoe/>



Linux OK (Linux Optimization Kit)

Linux Optimization Kit: Increase Performance of Linux Applications

- Provides kernel and application specific optimization features all aimed at increasing CPU performance, speeding up boot-time and reducing memory footprint for Linux applications
- Refer to this datasheet for more information:
<https://www.mapusoft.com//wp-content/uploads/documents/linux-ok.pdf>



RELATED LINKS

- A free evaluation can be downloaded here: <http://mapusoft.com/downloads/>
- You can contact MapuSoft to request a license key for evaluation here: <http://mapusoft.com/contact>
- For user manual & technical documentation visit this link: <http://mapusoft.com/techdata/>
- For any technical or sales questions please submit a ticket at the MapuSoft support site at this link: <http://mapusoft.com/support/>