AppCOE™

Overview Datasheet

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 Abstractor, VxWorks, Linux/POSIX, Windows, micro-ITRON, µC/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	µITRON	QNXNeutrino RTOS	µC/OS III	FreeRTOS
LynxOS	Freescale MQX	RT Linux	Unix	In-house

- Profile applications on target to identify performance bottleneck and perform code optimization

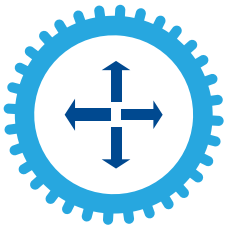
AppCOE™

Overview Datasheet

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, µC/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

Cross-OS Hypervisor

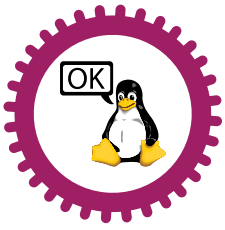
Consolidate Applications Developed for Multiple OS on a Single OS Platform

- Provides virtualization interfaces for VxWorks, Linux/POSIX, Windows, micro-ITRON, µC/OS, FreeRTOS, ThreadX, Nucleus, VRTX, QNX, RTLinux and pSOS applications, enabling them to run
  on various target platforms
- Refer to this datasheet for more information:
  https://www.mapusoft.com//wp-content/uploads/documents/cross-os-hypervisor.pdf

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/



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

AppCOE™

Overview Datasheet

Ada-C/C++ Changer

Convert Ada to C/C++ or Compile Ada Code Using C/C++ Tools

- 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//wp-content/uploads/documents/ada-changer.pdf

OS Abstractor

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-abstractor/

App/Platform 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/

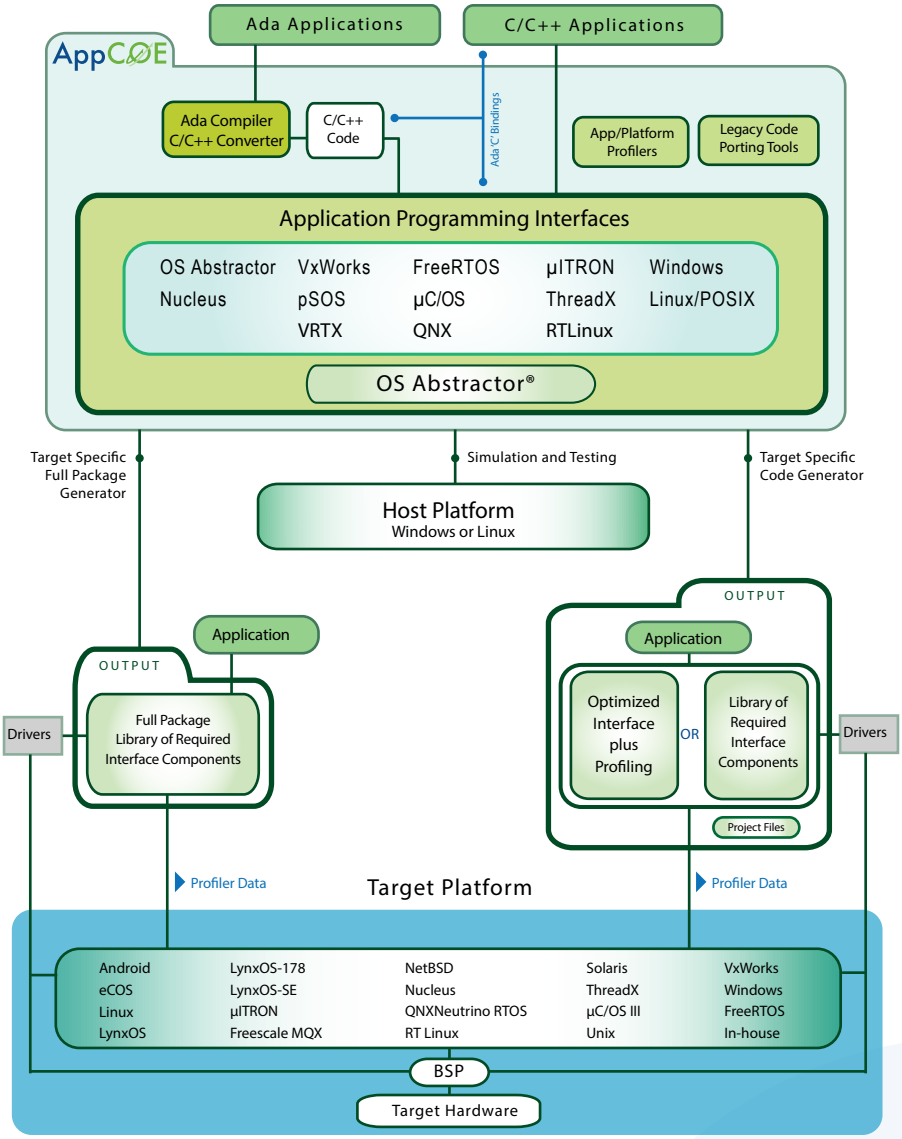
OS Simulator

Develop and Test applications on simulated OS platform

- Develop and test embedded applications on Windows or Linux host environments without the need for the original OS or expensive target hardware
- Develop and test embedded applications without purchasing OS on free and open-source Linux and FreeRTOS target platforms
- Refer to this web page for more information:
  https://www.mapusoft.com/os-simulator/

AppCOE™

Overview Datasheet



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/

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