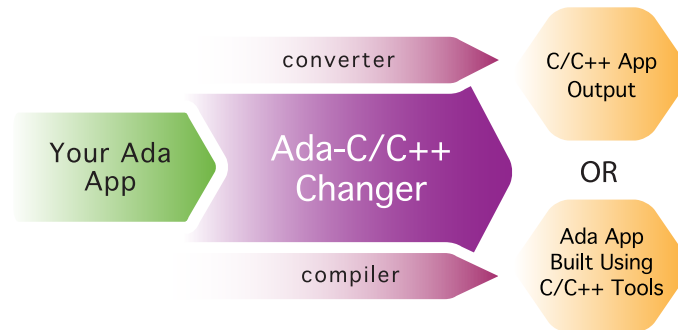


Ada-C/C++ Changer can be used in two ways: as a converter or as a compiler. As a converter, it transitions Ada code to C/C++. When used as a compiler, Ada applications can support targets for which only C/C++ toolchains are available.



> As Converter

- Reuse or re-deploy your existing Ada software
- Automatically convert Ada to C/C++
- Extensive cost and time savings

> As Compiler

- Compile Ada code using C/C++ tools
- Support CPU architectures not supported by Ada compilers

Overview

Ada-C/C++ Changer is a component of AppCOE, a robust porting and abstraction solution platform based on the Eclipse framework and GNU tools. Ada-C/C++ Changer reads the source code directly from your Ada source directories and then compiles them to generate equivalent C/C++ code that is fully readable and maintainable. If your Ada application requires any additional 'C' function calls, they can be easily added to the generated C/C++ output and compiled using either the supplied GNU compiler or another compiler to generate the application executable for your target.

Optionally, the resultant C/C++ code can be integrated with the OS Abstractor platform to obtain real-time performance, portability and stability across a multitude of OS platforms, thereby greatly minimizing any needed re-hosting effort. Integration with OS Abstractor allows the converted C/C++ code to utilize OS Abstractor's scheduler primitives and enable your converted code to run on a wide variety of target OS platforms.

Below are the Target Operating Systems supported by Ada-C/C++ Changer

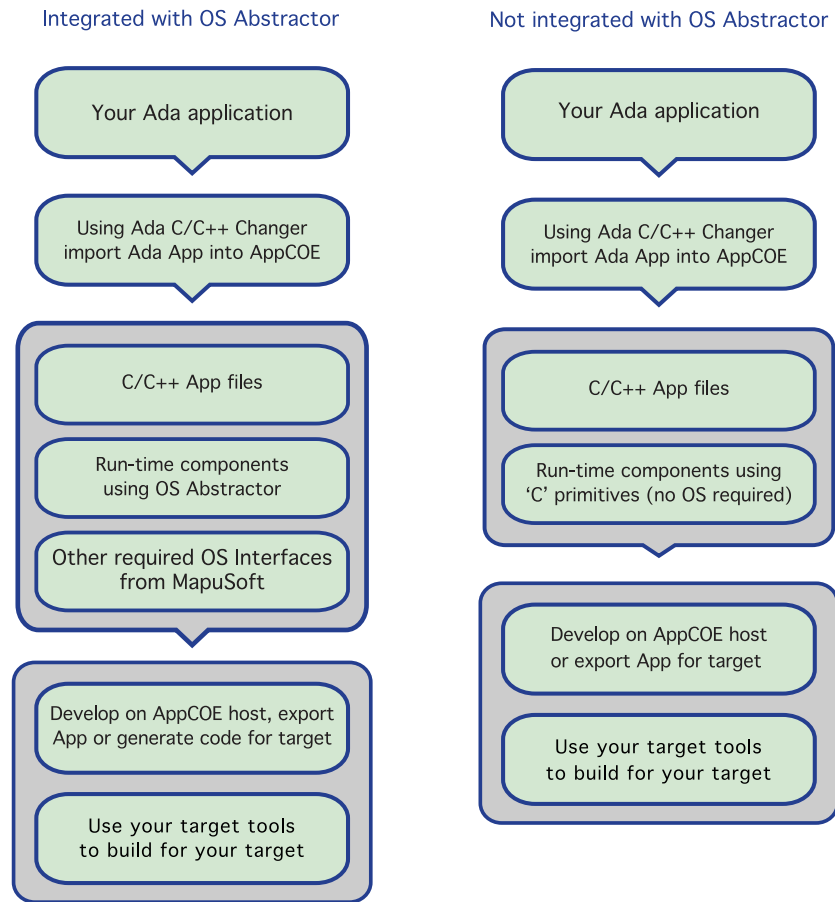
Android®	LynxOS-SE®	QNX Neutrino RTOS®	Unix®
eCOS®	micro-ITRON	RT Linux®	VxWorks®
Linux®	Freescale MQX®	Solaris®	Windows®
LynxOS®	NetBSD®	ThreadX®	FreeRTOS™
LynxOS-178	Nucleus®	µC/OS III™	In-house OS

OS Interfaces offered by MapuSoft

OS Abstractor®	micro-ITRON	pSOS®	VxWorks®	µC/OS™
Linux/POSIX	Nucleus®	ThreadX®	Windows®	FreeRTOS™

If your Ada application makes OS system calls, then it can use the OS Interfaces provided by Mapusoft, even if you move to a different OS platform, in order to make the re-hosting effort much easier.

Optional Integration with OS Abstractor



Noteworthy Features

- Supports conversion of Ada 83, Ada 95 & a subset of Ada 2005 source code to ANSI C/C++ output
- Preserves Ada comments, files structures and variable names for easier code maintenance
- Keeps “static” trees as symbolic expressions rather than evaluating them to literal values
- Provides user configurable options to control the format and style of the C/C++ output
- Provides GNAT compiler compatibility

Related Links

- Please refer to this link for latest release notes about the API coverage provided by the MapuSoft Interfaces:
http://www.mapusoft.com/wp-content/uploads/documents/Release_Notes.pdf
- A free evaluation can be downloaded here:
<http://mapusoft.com/downloads/>
- For user manual & technical documentation visit this link:
<http://www.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/>