



INTER-OPERABILITY MADE EASY



MapuSoft is the global leader in software interoperability & reusability solutions that provide freedom, protection and stability to embedded applications





## FREEDOM

Don't confine your  
code to one platform



## PROTECTION

Protect software  
investment



## STABILITY

Robust and  
optimized platform







## Linux Optimization Kit

- Many developers need to get a performance increase from their Linux OS
- Linux OK allows users to achieve higher performance without making changes to the kernel
- Enhanced performance is provided through OS Abstractor target specific module
- Included Linux/POSIX Interface provides better coverage and portability
  - Ability to have one code base for multiple POSIX variants
- Provides header files and template code to re-direct the application to use the Linux OK interfaces



## Linux Optimization Kit

- Generates optimized interface code, based on the application's API usage, and according to GUI settings input by the user
- Reduces run-time creation and deletion of OS resources by pooling and reusing them across applications/processes
- Reduces unnecessary task and user/kernel mode switching
- Enhances Linux application performance
  - Statically create and reuse OS resource control blocks across one or more applications
  - Statically create and reuse threads from pool
  - Enhance performance without breaking Linux API compliance or modifying your application
  - GUI to configure target environment and resource requirements for various Linux kernel versions and variants (32/64 bit; SMP/UP systems)

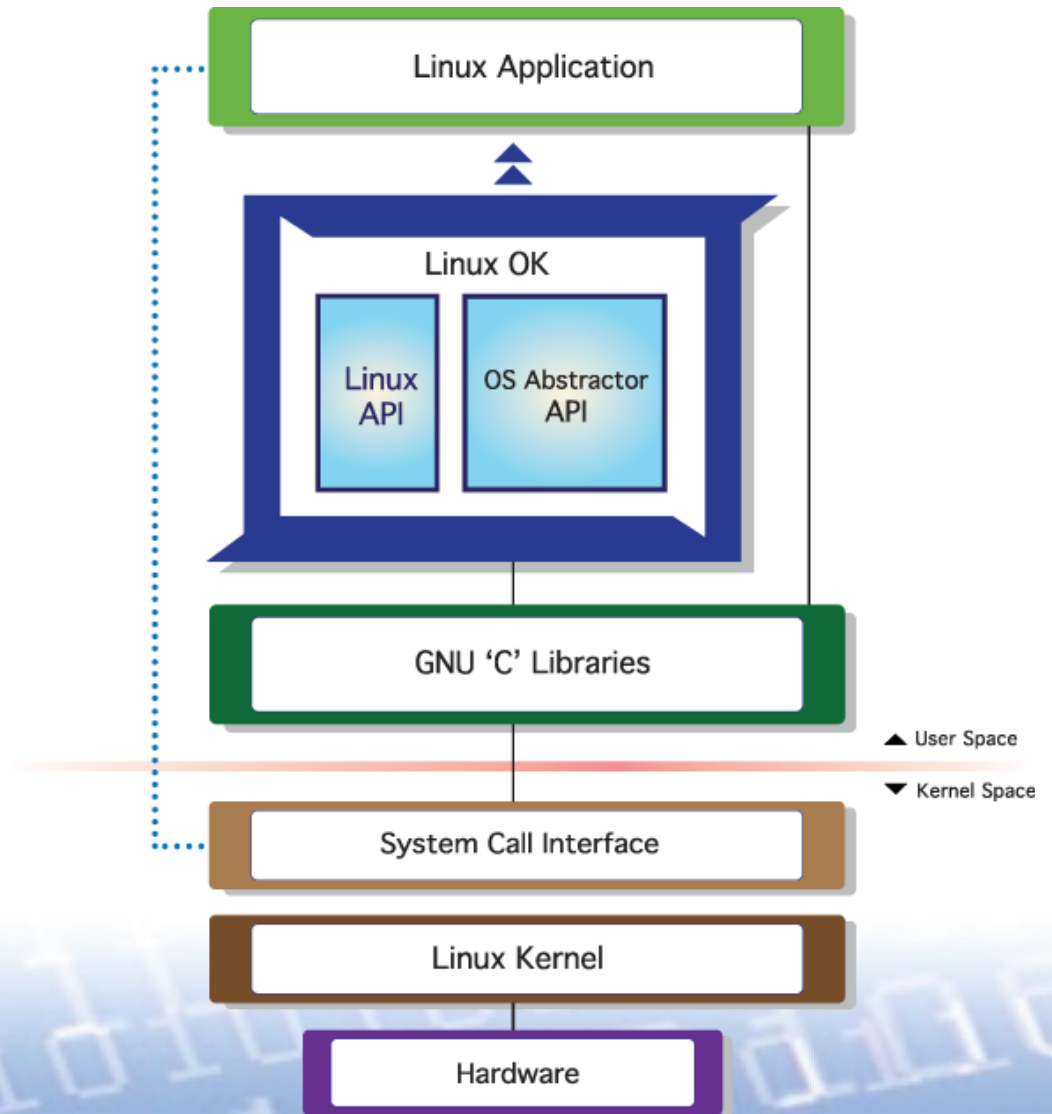


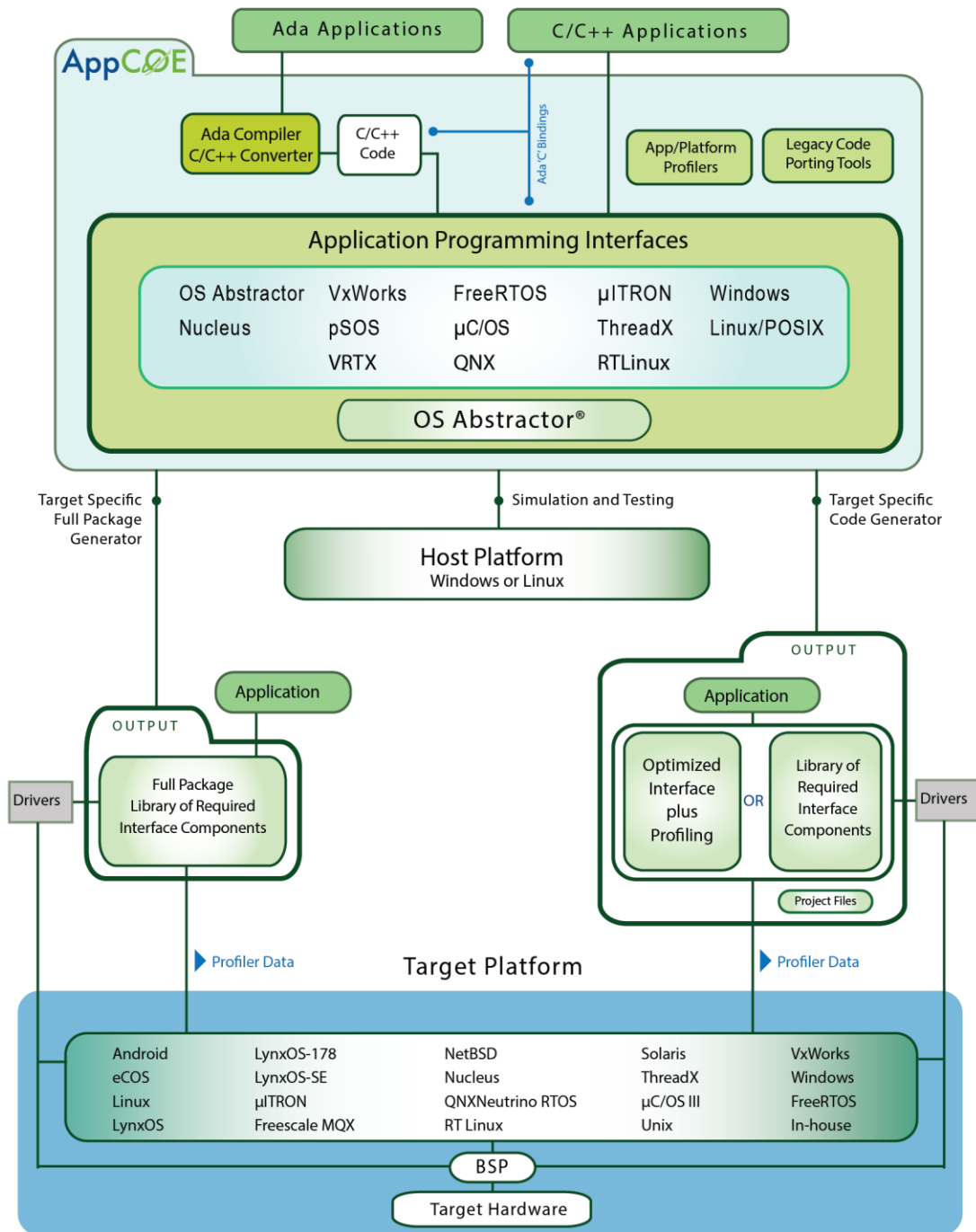
## Linux Optimization Kit

- OS Abtractor Interface for advanced features
  - Tiered memory pools to eliminate memory fragmentation
  - Shared memory pool to eliminate data copy across applications
  - Automatically recover from software fatal errors through a soft reset
  - Use the same Interface for inter-process communication within and across individual application processes
- Scalability and Optimization specific to your application
  - Profiler to identify performance bottlenecks and level of API usage so that specific optimizations can be made
  - Generate project files for your target

## LinuxOK<sup>®</sup> Optimization Kit

Increase performance and  
stability of Linux Applications





AppCOE™

Application Common  
Operating Environment