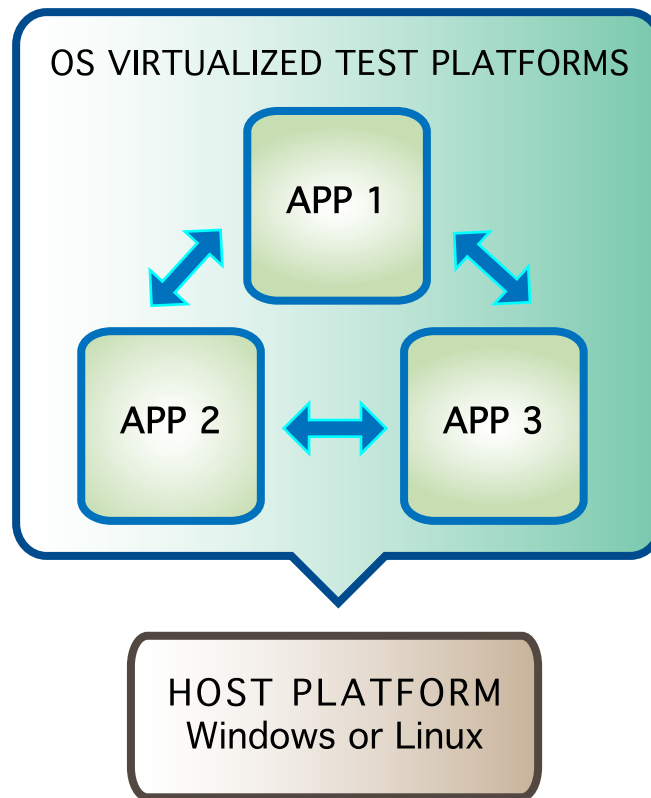


OS VIRTUALIZED TEST PLATFORMS

> SIMULATE AND TEST SYSTEM OF APPLICATIONS ON HOST

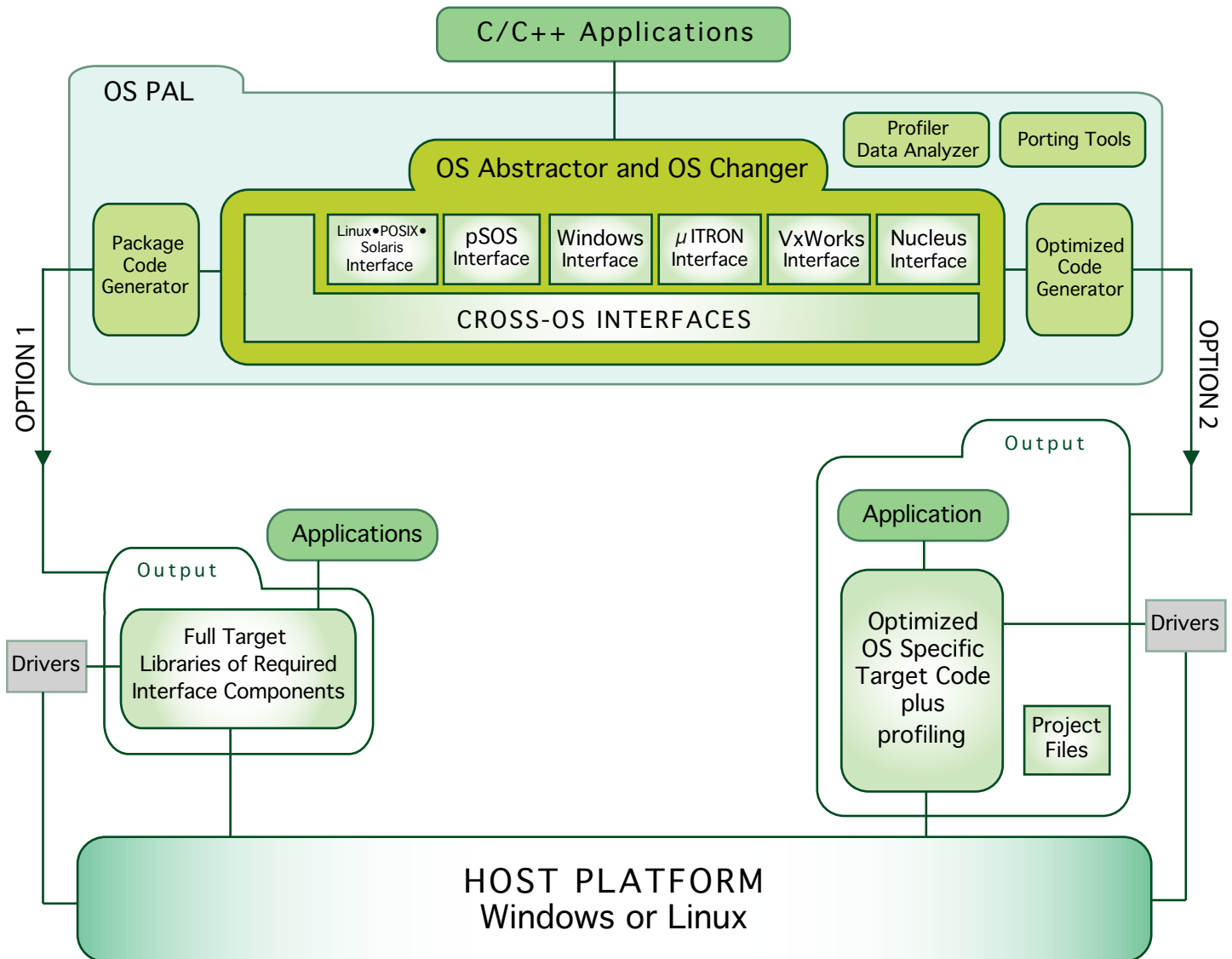
OS Virtualized Test Platforms provide the ability to simulate and test an entire system of C/C++ applications developed for Linux, POSIX, Solaris, pSOS, Windows, VxWorks, Nucleus & μ ltron on a host machine to reduce labor and material costs. It allows applications to take full advantage of powerful resources like CPU, memory, drivers, middleware and tools on the host platform so that testing of the application can start before those target components are ready. It is developed utilizing MapuSoft's OS PAL, OS Changer and OS Abstractor host-based solutions.



WHY USE OS VIRTUALIZED PLATFORMS?

- Reduce testing effort by using a host rather than the resource restricted target platform
- Simulate a complex system on one host machine and save money by eliminating the need for using expensive target platforms
- Perform modular testing by connecting application modules loosely via a simulated communication interface

OS VIRTUALIZED TEST PLATFORMS



HIGHLIGHTS

- Single tool supporting multiple OS simulation allows for testing variety of applications
- Generation of optimized OS Simulator source code allows applications to be compiled utilizing native host tools for testing (refer to Option 1 and Option 2 in the diagram above)
- Generate application performance metrics & analyze data in graphical viewer to look for bottlenecks
- Support Module Based Testing
 - > Load/unload an individual module (application) as separate processes so the module being tested will not stop the rest of the modules from functioning
 - > Define and guarantee resource requirements (memory, kernel objects) upfront for each module
 - > Easily setup communication between modules either based on shared memory or netstack
 - > Easily simulate devices and data flow across modules on host
- Keep a single code-base across host and target and reduce maintenance effort
- Vendor neutral OS simulator prevents you getting locked into one specific OS vendor solutions