

□ Documentation

[Xcode](#) / Application binary interfaces

Application binary interfaces

Write assembly instructions that adhere to the application binary interfaces of Apple platforms.

Overview

The CPUs found in Apple products define rules for how to call functions, manage the stack, and perform other operations. If your code includes assembly instructions, you must adhere to these rules to operate correctly with compiler-generated code. If you don't adhere to them, your code might crash or behave unexpectedly.

Topics

64-bit interfaces

Writing ARM64 code for Apple platforms

Create 64-bit ARM assembly language instructions that adhere to the application binary interface (ABI) that Apple platforms support.

Writing 64-bit Intel code for Apple Platforms

Create 64-bit Intel assembly language instructions that adhere to the application binary interface (ABI) that Apple platforms support.

iOS interfaces

Writing ARMv7 code for iOS

Create ARMv7 assembly language instructions that adhere to the application binary interface (ABI) that iOS supports.

Writing ARMv6 code for iOS

Create ARMv6 assembly language instructions that adhere to the application binary interface (ABI) that iOS supports.

See Also

Hardware considerations

Apple silicon

Get the resources you need to create software for Macs with Apple silicon.