



# OpenCore

Reference Manual (0.6.~~8~~.9)

[2021.04.06]

**Description:** Some types of firmware reset screen resolutions to a failsafe value (such as 1024x768) on the attempts to clear screen contents when large display (e.g. 2K or 4K) is used. This option attempts to apply a workaround.

*Note:* This option only applies to the **System** renderer. On all known affected systems, **ConsoleMode** must be set to an empty string for this option to work.

### 13. UgaPassThrough

**Type:** plist boolean

**Failsafe:** false

**Description:** Provide UGA protocol instances on top of GOP protocol instances.

Some types of firmware do not implement the legacy UGA protocol but this may be required for screen output by older EFI applications such as EfiBoot from 10.4.

## 11.12 ProtocolOverrides Properties

### 1. AppleAudio

**Type:** plist boolean

**Failsafe:** false

**Description:** Replaces Apple audio protocols with builtin versions.

Apple audio protocols allow OpenCore and the macOS bootloader to play sounds and signals for screen reading or audible error reporting. Supported protocols are beep generation and VoiceOver. The VoiceOver protocol is specific to Gibraltar machines (T2) and is not supported before macOS High Sierra (10.13). Older macOS versions use the AppleHDA protocol (which is not currently implemented) instead.

Only one set of audio protocols can be available at a time, so this setting should be enabled in order to enable audio playback in the OpenCore user interface on Mac systems implementing some of these protocols.

*Note:* The backend audio driver needs to be configured in **UEFI Audio** section for these protocols to be able to stream audio.

### 2. AppleBootPolicy

**Type:** plist boolean

**Failsafe:** false

**Description:** Replaces the Apple Boot Policy protocol with a builtin version. This may be used to ensure APFS compatibility on VMs and legacy Macs.

*Note:* This option is advisable on certain Macs, such as the **MacPro5,1**, that are APFS compatible but on which the Apple Boot Policy protocol has recovery detection issues.

### 3. AppleDebugLog

**Type:** plist boolean

**Failsafe:** false

**Description:** Replaces the Apple Debug Log protocol with a builtin version.

### 4. ~~AppleEvent~~**Type:** ~~plist boolean~~**Failsafe:** ~~false~~**Description:** ~~Replaces the Apple Event protocol with a builtin version. This may be used to ensure FileVault 2 compatibility on VMs and legacy Macs.~~

### 5. AppleFramebufferInfo

**Type:** plist boolean

**Failsafe:** false

**Description:** Replaces the Apple Framebuffer Info protocol with a builtin version. This may be used to override framebuffer information on VMs and legacy Macs to improve compatibility with legacy EfiBoot such as the one in macOS 10.4.

*Note:* The current implementation of this property results in it only being active when GOP is available (it is always equivalent to **false** otherwise).

### 6. AppleImageConversion

**Type:** plist boolean

**Failsafe:** false

**Description:** Replaces the Apple Image Conversion protocol with a builtin version.