



OpenCore

Reference Manual (0.5.~~5~~.6)

[2020.02.06]

Type: plist boolean

Failsafe: false

Description: Forcibly reinstalls unicode collation services with builtin version. Should be set to **true** to ensure UEFI Shell compatibility on platforms providing broken unicode collation. In general legacy Insyde and APTIO platforms on Ivy Bridge and earlier are affected.

11.5 Quirks Properties

1. ~~**AvoidHighAllocType:** plist boolean**Failsafe:** false**Description:** Advises allocators to avoid allocations above first 4 GBs of RAM.~~

~~This is a workaround for select board firmwares, namely GA-Z77P-D3 (rev. 1.1), failing to properly access higher memory in UEFI Boot Services. On these boards this quirk is required for booting entries that need to allocate large memory chunks, such as macOS DMG recovery entries. On unaffected boards it may cause boot failures, and thus strongly not recommended. For known issues refer to.~~

2. ClearScreenOnModeSwitch

Type: plist boolean

Failsafe: false

Description: Some firmwares clear only part of screen when switching from graphics to text mode, leaving a fragment of previously drawn image visible. This option fills the entire graphics screen with black color before switching to text mode.

Note: ConsoleControl should be set to **true** for this to work.

3. ExitBootServicesDelay

Type: plist integer

Failsafe: 0

Description: Adds delay in microseconds after EXIT_BOOT_SERVICES event.

This is a very ugly quirk to circumvent "Still waiting for root device" message on select APTIO IV firmwares, namely ASUS Z87-Pro, when using FileVault 2 in particular. It seems that for some reason they execute code in parallel to EXIT_BOOT_SERVICES, which results in SATA controller being inaccessible from macOS. A better approach should be found in some future. Expect 3-5 seconds to be enough in case the quirk is needed.

4. IgnoreInvalidFlexRatio

Type: plist boolean

Failsafe: false

Description: Select firmwares, namely APTIO IV, may contain invalid values in MSR_FLEX_RATIO (0x194) MSR register. These values may cause macOS boot failure on Intel platforms.

Note: While the option is not supposed to induce harm on unaffected firmwares, its usage is not recommended when it is not required.

5. IgnoreTextInGraphics

Type: plist boolean

Failsafe: false

Description: Select firmwares output text onscreen in both graphics and text mode. This is normally unexpected, because random text may appear over graphical images and cause UI corruption. Setting this option to **true** will discard all text output when console control is in mode different from **Text**.

Note: While the option is not supposed to induce harm on unaffected firmwares, its usage is not recommended when it is not required. This option may hide onscreen error messages. ConsoleControl may need to be set to **true** for this to work.

6. ReplaceTabWithSpace

Type: plist boolean

Failsafe: false

Description: Some firmwares do not print tab characters or even everything that follows them, causing difficulties or inability to use the UEFI Shell builtin text editor to edit property lists and other documents. This option makes the console output spaces instead of tabs.

Note: ConsoleControl may need to be set to **true** for this to work.