



OpenCore

Reference Manual (0.7.~~5~~.6)

[2021.11.04]

Failsafe: false

Description: Some types of firmware do not print tab characters or everything that follows them, causing difficulties in using the UEFI Shell's builtin text editor to edit property lists and other documents. This option makes the console output spaces instead of tabs.

Note: This option only applies to **System** renderer.

10. ProvideConsoleGop

Type: plist boolean

Failsafe: false

Description: Ensure GOP (Graphics Output Protocol) on console handle.

macOS bootloader requires GOP or UGA (for 10.4 EfiBoot) to be present on console handle, yet the exact location of the graphics protocol is not covered by the UEFI specification. This option will ensure GOP and UGA, if present, are available on the console handle.

Note: This option will also replace incompatible implementations of GOP on the console handle, as may be the case on the MacPro5,1 when using modern GPUs.

11. ReconnectOnResChange

Type: plist boolean

Failsafe: false

Description: Reconnect console controllers after changing screen resolution.

On certain firmware, the controllers that produce the console protocols (simple text out) must be reconnected when the screen resolution is changed via GOP. Otherwise, they will not produce text based on the new resolution.

Note: On several boards this logic may result in black screen when launching OpenCore from Shell and thus it is optional. In versions prior to 0.5.2 this option was mandatory and not configurable. Please do not use this unless required.

12. SanitiseClearScreen

Type: plist boolean

Failsafe: false

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. [UIScale](#)

[Type: plist integer, 8 bit](#)

[Failsafe: -1](#)

[Description: User interface scaling factor.](#)

[Corresponds to 4D1EDE05-38C7-4A6A-9CC6-4BCCA8B38C14:UIScale variable.](#)

- [1 — 1x scaling, corresponds to normal displays.](#)
- [2 — 2x scaling, corresponds to HiDPI displays.](#)
- [-1 — leaves the current variable unchanged.](#)
- [0 — automatically chooses scaling based on the current resolution.](#)

14. 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.

11.14 ProtocolOverrides Properties

1. AppleAudio

Type: plist boolean