

vBOX or BrickStor not Booting - Decode Beep Codes and LEDs

Problem

System will not POST and you need to diagnose the issue based on beep tones and lights on the vBox or Brickstor.

Solution

Note Common supported codes are listed in these tables. For more platform-specific beep codes, and POST Progress codes,

Beeps	Error Message	Description
1 short	USB device action	Short beep sounded whenever USB device is discovered in POST, or inserted or removed during runtime.
1 long	Intel® Trusted Execution Technology (Intel® TXT) security violation	System halted because Intel® Trusted Execution Technology detected a potential violation of system security.
3 short	Memory error	System halted because a fatal error related to the memory was detected.
3 long and 1 short ¹	CPU mismatch error	System halted because a fatal error related to the CPU family/core/cache mismatch was detected.
2 short	Recovery started	BIOS Recovery boot has been initiated
4 short	Recovery failed	BIOS Recovery has failed. This typically happens so quickly after recovery is initiated, that it sounds like a 2-4 beep code.

The Integrated BMC generates beep codes when it detects failure conditions. Beep codes are sounded each time the problem is discovered, such as with each power-up attempt, but are not sounded continuously. Each digit in the code represents the number of beeps in the sequence. The following Beep Codes are from the integrated BMC.

Beeps	Error Message	Description
1-5-2-1	CPU socket population error	CPU1 socket is empty, or sockets are populated incorrectly. CPU1 must be populated before CPU2.
1-5-2-4	MSID Mismatch	MSID mismatch occurs if a processor is installed into a system board that has incompatible power capabilities.
1-5-4-2	Power fault	DC power unexpectedly lost (power good dropout) - Power unit sensors report power unit failure offset.
1-5-4-4	Power control fault	Power good assertion timeout - Power unit sensors report soft power control failure offset.
1-5-1-2	VR Watchdog Timer	VR controller DC power on sequence not completed in time.
1-5-1-4	Power Supply Status	The system does not power on, or unexpectedly powers off. A Power Supply Unit (PSU) is present that is incompatible with one or more other PSUs in the system.

Often, the beep codes may be difficult to hear in a datacenter or harder and it may be more helpful to use the LEDs on the back of the box to diagnose the problem

Related articles

Content by label

There is no content with the specified labels

