# 31 Protocols **RISC-V EFI Boot** Protocol Test

## **31.1 RISC-V EFI Boot** Protocol Test

Reference Document:

*RISC-V UEFI Protocol Specification*, Chapter 3

https://github.com/riscv-non-isa/riscv-uefi/releases/download/1.0-rc2/RISCV\_UEFI\_PROTOCOL-spec.pdf

### 31.1.1 GetBootHartId()

|  |  |  |  |
| --- | --- | --- | --- |
| Number | GUID | Assertion | Test Description |
| 1 | 0x5ccf7e22, 0x5ca1,  0x433c,  0x97, 0xb4, 0xea, 0x3a, 0xb8, 0x49, 0xf7, 0x03 | RISCV\_EFI\_BOOT\_PROTOCOL. GetBootHartId() - GetBootHartId()  returns EFI\_INVALID\_PARAMTER with NULL for **This** pointer passed in. | Call GetBootHartId() with NULL for **This** pointer.  a. Verify status returned == EFI\_INVALID\_PARAMETER. |
| 2 | 0xa07c08ba, 0x8581,  0x477a,  0x85, 0xe2,  0x69, 0x88, 0xa5, 0xb3, 0xd4, 0xec | RISCV\_EFI\_BOOT\_PROTOCOL. GetBootHartId() - GetBootHartId()  returnsEFI\_INVALID\_PARAMTER with some invalid address for the **This** pointer to the protocol passed in. | Call GetBootHartId() with **This** pointer other than the located protocol address.  a. Verify status returned == EFI\_INVALID\_PARAMETER. |
| 3 | 0x00b63b3a, 0xd91d, 0x4175,  0x8c, 0xee, 0xf9, 0xca, 0x63, 0xf5, 0x84, 0x1c | RISCV\_EFI\_BOOT\_PROTOCOL. GetBootHartId() - GetBootHartId()  returns EFI\_INVALID\_PARAMTER with NULL pointer BootHartId passed in. | Call GetBootHartId() with NULL for **BootHartId** pointer.  a. Verify status returned == EFI\_INVALID\_PARAMETER. |
| 4 | 0xe3a8b4a8, 0x866c,  0x4513,  0x86, 0xb3, 0x61, 0x1d, 0x02, 0x52,  0x2f, 0x81 | RISCV\_EFI\_BOOT\_PROTOCOL. GetBootHartId() - GetBootHartId()  returns EFI\_SUCCESS with valid pointers to the protocol and BootHartId passed in. | Call GetBootHartId() with valid **This** and **BootHartId** pointers  a. Verify status returned == EFI\_SUCCESS. |
| 5 | 0x8fbbf9d8, 0x0ab2,  0x481d,  0xb5, 0xe0,  0x5f, 0x29,  0x99, 0xd3, 0xcb, 0x34 | RISCV\_EFI\_BOOT\_PROTOCOL. GetBootHartId() - GetBootHartId()  returns EFI\_SUCCESS with valid pointers to the protocol and BootHartId passed in. Same hart id is returned even when GetBootHartID() is called twice with different BootHartId pointers. | Call GetBootHartId() with valid **This** and **BootHartId** pointers twice  a. Verify status returned == EFI\_SUCCESS for both calls.  b . Verify that the value returned in BootHartId is same when GetBootHartId() is called twice |