

RCE Boot Status Codes

During the boot process, the bootloader or an operating system may output a status code to the COB IPMC.

This status code can be used to determine the current boot state of an RCE.

Executing the `cob_dump` command with the `--rce` switch will print the code in the "RCE State" column.

Due to boot stage timing and sample rates, some codes may never actually be detected by the COB IPMC.

See also [COB Dump](#) and [DSL Commands](#)

Linux and RTEMS

0x0 : BOOT_SUCCESS - The operating system has booted and been assigned an IP address

0x1 : BOOT_REBOOTING - The operating system received a DSL reboot request and is rebooting (V1.10.0 and up)

0x2 : BOOT_UPDATING - The operating system received a DSL update request and is updating (V1.10.0 and up)

RTEMS Only

0x8 - 8 : BOOT_DSLEXE - dsl exe started

0xc - 12 : BOOT_DSLPREFS - dsl exe preferences loaded

0x10 - 16 : BOOT_STARTSVC - startup services started

0x12 - 18 : BOOT_LINKTRAIN - 10G network phy link training

0x14 - 20 : BOOT_STARTPREFS - startup service preferences loaded

0x18 - 24 : BOOT_APPSVT - application svt installed

0x1a - 26 : BOOT_SYSSVT - system svt installed

0x1e - 30 : BOOT_CFGNAMESPACE - config namespace installed

0x20 - 32 : BOOT_SYSNAMESPACE - system namespace installed

0x24 - 36 : BOOT_APP_SDMOUNT - application sd partition mounted

0x26 - 38 : BOOT_SYS_SDMOUNT - system sd partition mounted

0x28 - 40 : BOOT_SDINIT - sd driver initialized

0x2a - 42 : BOOT_RTEMSLDR - Ldr_Install_Rtems completed

0x2c - 44 : BOOT_DBGINIT - Debug package init completed

0x30 - 48 : BOOT_WRAPPOSTDRVHOOK - __wrap_bsp_postdriver_hook executed

0x34 - 52 : BOOT_POSTDRVHOOK - brd_postdriver_hook executed

0x38 - 56 : BOOT_WRAPPREDRVHOOK - __wrap_bsp_predriver_hook executed

0x3c - 60 : BOOT_PREDRVHOOK - brd_predriver_hook executed

0x40 - 64 : BOOT_WRAPPRETASKHOOK - __wrap_bsp_pretasking_hook executed

0x44 - 68 : BOOT_PRETASKHOOK - brd_pretasking_hook executed

0x48 - 72 : BOOT_WRAPBSPSTART - __wrap_bsp_start executed

0x4c - 76 : BOOT_BRDSTART - brd_start executed

0x50 - 80 : BOOT_BSPSTARTHOOK1 - bsp_start_hook_1 executed

0x54 - 84 : BOOT_BSPSTARTHOOK0 - bsp_start_hook_0 executed

U-Boot

0xea - 234 : BOOT_OS_HANDOFF - U-boot has transferred control to another operating system

0xee - 238 : BOOT_RCE_READY - U-boot has completed RCE board initialization and is ready to boot an operating system

0xf2 - 242 : BOOT_CM_INIT - The DTM is initializing the network switch driver (DTM only)

0xff - 255 : BOOT_NOT_BOOTED - U-boot has started execution but has not yet initialized RCE board support