

Restoring a File Using the Bootloader

The RCE bootloader (U-Boot) can read and write DOS formatted FAT partitions located on the SD card.

This feature can be used in an emergency to restore a file.

The [RCE serial console](#) must be used for this operation.

The [bootloader countdown](#) must be enabled in order to enter the bootloader shell.

[Reboot the RCE](#) and press any key to enter to [enter the bootloader shell](#).

To list the contents of a partition:

```
zynq-uboot> fatls mmc 0:1
13706024 boot.bin
13321506 fpga.bit
131072 uboot.env

3 file(s), 0 dir(s)

zynq-uboot> fatls mmc 0:7
9984 devicetree.dtb
9988 devicetree_ramdisk.dtb
3678504 uimage
5289509 uramdisk.image.gz

4 file(s), 0 dir(s)
```

To restore a file, first load the backup from the SD card into memory at 0x700000

```
zynq-uboot> fatload mmc 0:7 0x700000 image.backup
reading image.backup
3678504 bytes read in 629 ms (5.6 MiB/s)
```

(A backup file may also be loaded into memory [using NFS](#))

Now write the in memory file to the SD card

```
zynq-uboot> fatwrite mmc 0:7 0x700000 uimage $filesize
writing uimage
3678504 bytes written in 770 ms (4.6 MiB/s)
zynq-uboot>
```

Execute reset to reboot RCE in the OS.