CPU1
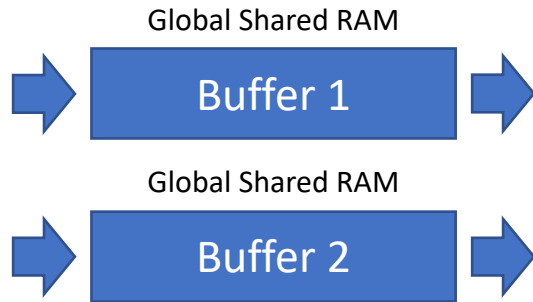
- Generate log events
- Write bytes to buffer
- Signal CPU2 when buffer full
- Alternate between buffers

Global Shared RAM

Buffer 1

Global Shared RAM

Buffer 2

IPC flags used to signal events between processors

CPU2

- SD card driver
- FAT32 driver
- Filesystem management
- Signal CPU1 when a buffer has been written to file.