

egos-2k+ physical memory layout  
(updated 09/01/2023)

HIGH MEM ADDR		
		<- 0x8040_0000 [FREE_MEM_END]
DTIM memory (4MB)	free memory (4MB - 16KB)	
	earth interface (128B)	<- 0x8000_4000 [FREE_MEM_START]
	earth/grass stack (~8KB)	<- 0x8000_3f80 [GRASS_STACK_TOP]
	grass interface	
	app stack (6KB)	<- 0x8000_2000 [APPS_STACK_TOP]
	system call args (1KB)	<- 0x8000_0800
	app args (1KB)	<- 0x8000_0400 [SYSCALL_ARG]
		<- 0x8000_0000 [APPS_ARG]
...		
	read-only fs w/ dirs & user app elfs (2MB)	<- 0x20c0_0000
disk image (4MB)	grass elf and sys app elfs (1MB)	<- 0x20a0_0000
	(1MB)	<- 0x2090_0000
boot ROM (4MB)	earth code	<- 0x2080_0000
		<- 0x2040_0000
...		
		<- 0x1001_4000
UART0 (4KB)		
		<- 0x1001_3000

		<- 0x0a00_0000 [ITIM_END]
ITIM (32MB)	app code+data (16KB)	<- 0x0820_4000 [APPS_ENTRY+APPS_SIZE]
	grass code+data (1 MB)	<- 0x0820_0000 [APPS_ENTRY]
	earth data (1 MB)	<- 0x0810_0000 [GRASS_ENTRY]
		<- 0x0800_0000 [ITIM_START]
...		
		<- 0x0201_0000
	mtime (8B)	
CLINT (64KB)		<- 0x0200_bff8
	mtimecp (8B)	
		<- 0x0200_4000
	msip (4B)	
		<- 0x0200_0000
LOW MEM ADDR		