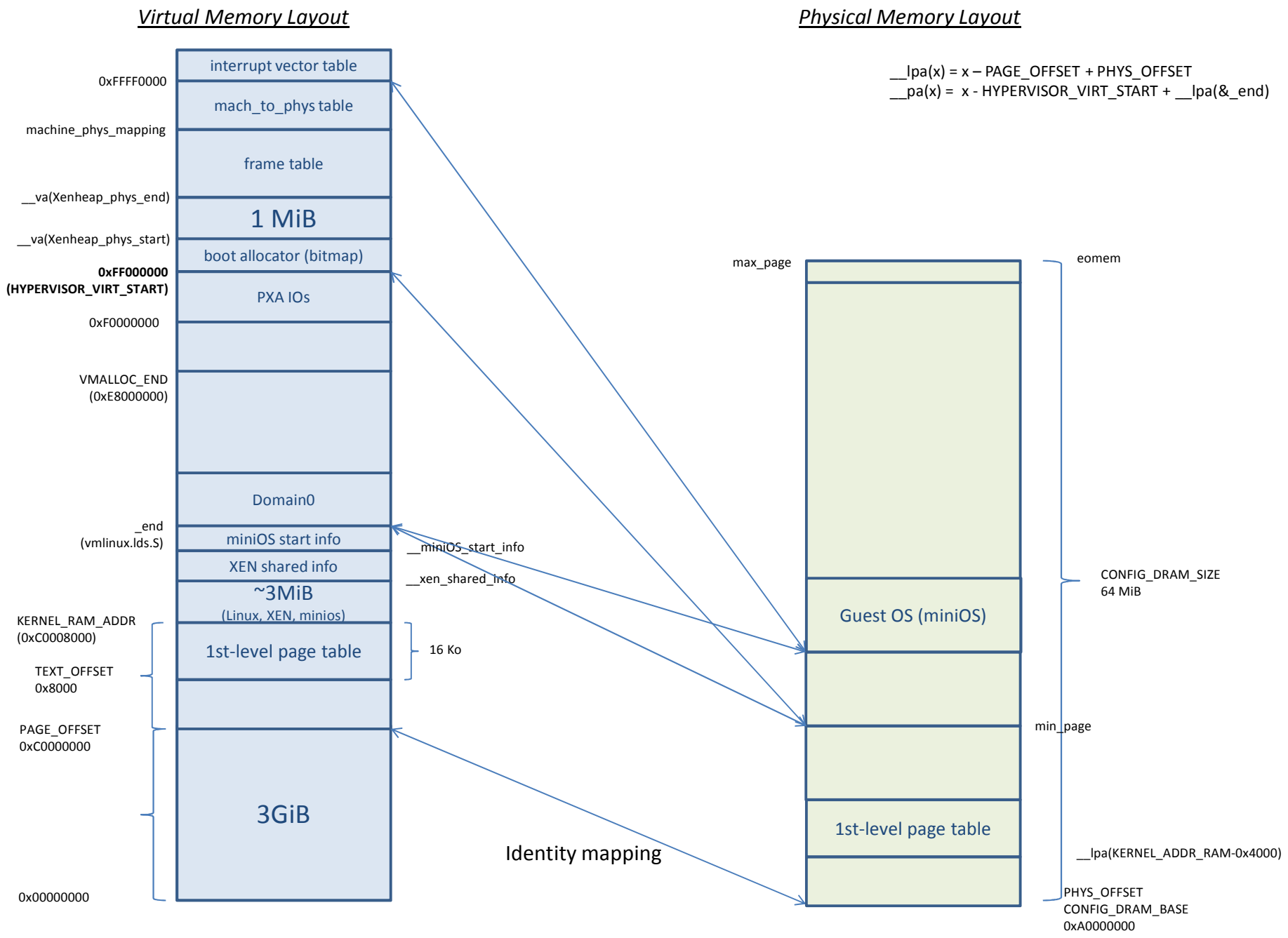
Virtual Memory Layout
Physical Memory Layout
__lpa(x) = x – PAGE_OFFSET + PHYS_OFFSET
__pa(x) = x - HYPERVISOR_VIRT_START + __lpa(&_end)
0xFFFF0000
interrupt vector table
mach_to_phys table
machine_phys_mapping
frame table
__va(Xenheap_phys_end)
1 MiB
__va(Xenheap_phys_start)
boot allocator (bitmap)
0xFF000000
(HYPERVISOR_VIRT_START)
PXA IOs
0xF0000000
VMALLOC_END
(0xE8000000)
Domain0
_end
(vmlinux.lds.S)
miniOS start info
XEN shared info
~3MiB
(Linux, XEN, minios)
KERNEL_RAM_ADDR
(0xC0008000)
1st-level page table
16 Ko
TEXT_OFFSET
0x8000
PAGE_OFFSET
0xC0000000
3GiB
0x00000000
__miniOS_start_info
__xen_shared_info
Identity mapping
max_page
eomem
CONFIG_DRAM_SIZE
64 MiB
Guest OS (miniOS)
min_page
1st-level page table
__lpa(KERNEL_ADDR_RAM-0x4000)
PHYS_OFFSET
CONFIG_DRAM_BASE
0xA0000000