

## impl Hal for VirtioHal

```
fn dma_alloc(pages: usize) -> usize;
```

```
fn dma_dealloc(pa: usize, pages: usize) -> i32;
```

```
fn phys_to_virt(addr: usize) -> usize {addr};
```

```
fn virt_to_phys(vaddr: usize) -> usize {vaddr};
```