



What is XOmB?

XOmB is a 64-bit exokernel written from scratch via an open collaborative effort of CS and COE students here at Pitt. The code has been written in a mix of the D programming language, and assembly. The kernel is targeted at 64 bit multi-core processors, and will attempt to avoid dated legacy practices.

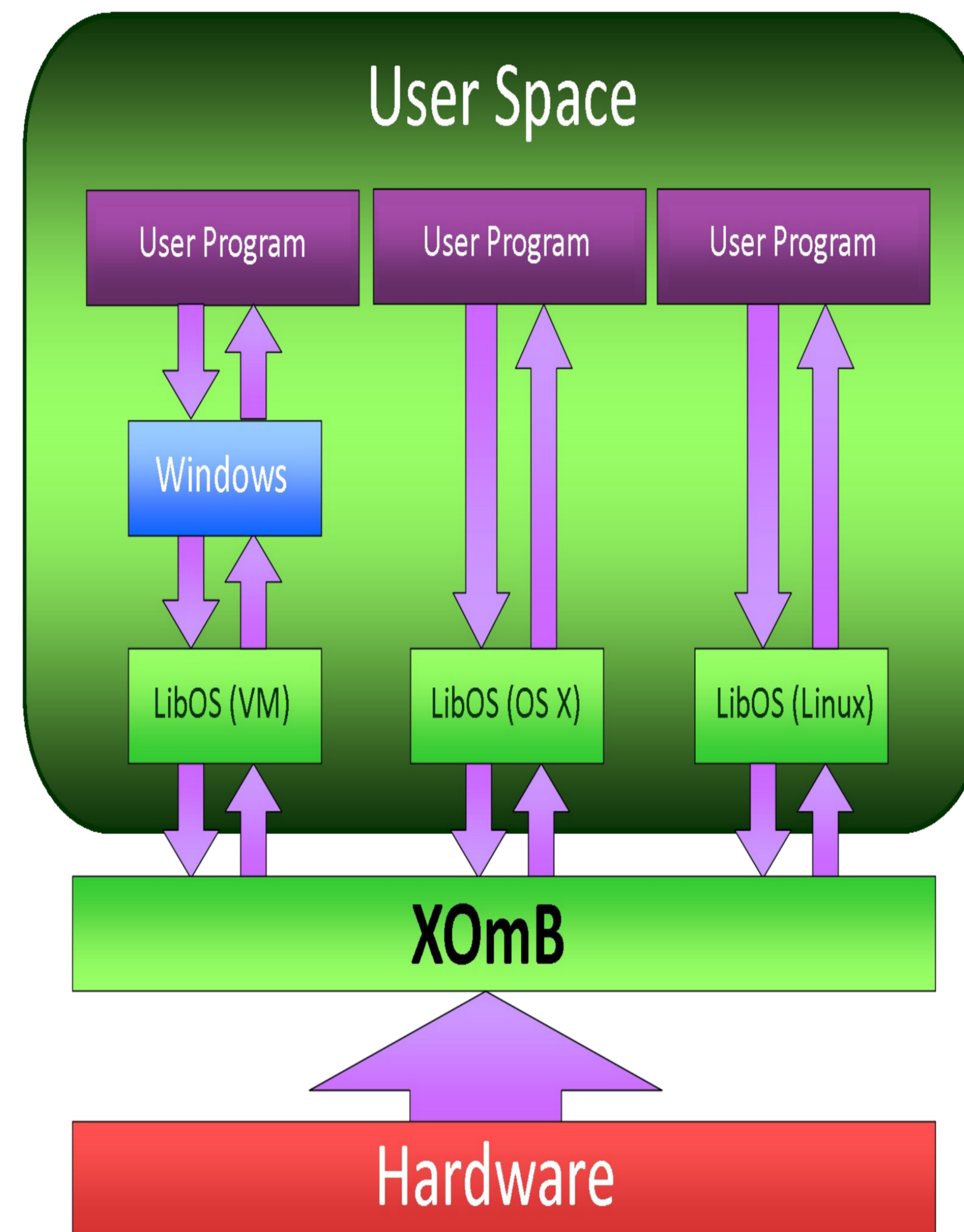
X = **XOmB**
O = **Overlords**
M = **Mean**
B = **Business**

What Have We Done?

- Boot the machine
- Use GRUB to load our ISO image to disk
- Set up many internal data structures
- Transition into user space.

Current Contributors:

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How XOmB Works: User programs communicate with XOmB through LibOSes. This allows support for diverse programs running in customized environments side by side.

Where to go Next?

- Eventually we aim to have a full-featured OS
- Integrated package manager for software and customized libOSes
- Have Windows, OS X, *nix run side by side
- A Default LibOS to package with the kernel
- Virtual Machine LibOS for maximum compatibility
- Process Environments
- Market-based Resource Management

Get Involved!

The XOmB team needs help! We need anyone interested in technology to come and help. If you don't know much about operating systems, we'll teach you. To find out more, visit pittgeeks.org or

```
Q - RollYourOwn
Booting [paganOS]...
flags = 0x7e7
mem_lower = 639KB, mem_upper = 14272KB
boot_device = 0xe0ffffff
cmdline = /boot/paganos
elf_sec: num = 11, size = 0x28, addr = 0x106000, shndx = 0x8
mmap_addr = 0x54d84, mmap_length = 0x90
size = 0x14, base_addr = 0x00, length = 0x09fc00, type = 0x1
size = 0x14, base_addr = 0x09fc00, length = 0x0400, type = 0x2
size = 0x14, base_addr = 0x0e8000, length = 0x018000, type = 0x2
size = 0x14, base_addr = 0x0100000, length = 0x0df0000, type = 0x1
size = 0x14, base_addr = 0x0ef0000, length = 0x010000, type = 0x3
size = 0x14, base_addr = 0x0ffc0000, length = 0x040000, type = 0x2
Venimus, vidimus, vicimus! --PittGeeks
Halted.
```

