Nunya OS

Week 2

Who Worked on What













File System kmalloc

Write disk at offset

Windowing System

Graphics Library

More math functions

Windowing System

kmalloc

Graphics Library File System

Write disk at offset

.iso file system for testing Memory Management

Website & Style Guide

VM, User Processes Memory Management

Website & Style Guide

VM, User Processes

TravisCl

Where We Are Now

- kmalloc, kfree completed
- "Getting Started" instructions on website
- Updated graphics library (lines/circles)
- Writing disk at block and offset
- Refactored code merged in
- Math library
- TravisCI
- Have .iso ready to try and read
- Improved knowledge of code base

By Next Week...

- Enumerate directory and file names in ISO format -- Ryan & Jesse
- Shuyang & Zach
 - Investigate "Page Fault" issue
 - Explore user mode / process running without a file system
- Kyle & Alex
 - More UI Controls and basic functionality
 - preparing for windowing system
- mouse driver

Kmalloc Implementation

- First fit algorithm
- Breaks pages down into 8 byte slots for distribution
- Gets supervisor pages from pagetable as necessary
 - First 462 bytes are struct kmalloc_page_info, pages linked by next pointers
- First 2 bytes of first slot keep track of number of slots to free
- Only supports allocations <= 3632 bytes

Ex:

```
char *str = kmalloc(16*sizeof(char))
kfree(str);
```

Now for some demos

- Disk write
- kmalloc
- TravisCI
- Basic UI Controls