

Project Overview

HALOS

VTC Senior Project

Christopher DeGuise

Description

- **Operating System targeting the IA-32 platform.**

FOR MORE INFO...

www.christopherdeguise.com/seniorproject

Project Goals

- **Small/fast**
- **Non-traditional OS, bind application directly to OS.**
- **Provide a system to be used in an educational/learning environment**

Technology

- **Technology being used**
 - C programming language
 - IA-32 Assembly
- **Tools**
 - GCC (Free)
 - Nasm (Free)
 - Doxygen (Free)
 - Bochs (Free)
 - Mantis (Free)
 - Microsoft Visual SourceSafe
 - Microsoft Visio

Procedures

- **Source Control**
- **Self documenting code**
- **Using a bug tracking system**
- **Building a suite of test applications for each API class.**

Current Status

```
- #include <stdio.h>
- #include <string.h>
- #include <ctype.h>

- int dllmain(void){

-     char buffer[100];
-     char tmp;
-     char *p;
-     sprintf(buffer,"%s %s Press a digit key to conitnue. %i","Hello","
World",strlen("test"));
-     p=buffer;
-     while(*p!='\0')
-         putchar(*p++);

-     do{
-         tmp=getchar();
-     }
-     while(!isdigit(tmp));

-     return 0;
- }
```

Current Status (cont.)

- **Major C Library calls being finished**
- **Console/Keyboard API in Place**
- **Serial API in place**
- **Cleaning up Task API**
- **Starting to ramp up for Block Device driver**

Q&A

