

Linux-ASM-Tutorial

Contains documents and scripts used for the Linux ASM Tutorial Series

Compile Documents

```
function pmark() {  
    for element in "$@"; do  
        var="$element:t:r"  
        pandoc "$element" --listings -H  
            "$HOME"/Documents/latex_formatting/coding.tex  
            --variable urlcolor=blue -o "$var".pdf  
    done  
}
```

Roadmap

- Introduction to Linux ASM
- Compiling and the Linker
- Arithmetic Computation
- Bitwise Operations
- System Calls
 - creating a print subroutine
 - use printf after creating print subroutine
- File I/O
 - cat clone
- Positional Offsets
 - xlat instruction
- Loops
 - for
 - while
 - do
 - do while
 - until
- Structures
- Writing a decryption algorithm
 - Satallite Project
 - * xorring bits
 - * file handling
 - * printing
- Extended Practice
 - summing the array of integers and finding it's average
 - swap the bits of a number and print each stage until the number becomes zero

- recreate the following UNIX utilities
 - * cat
 - * touch
 - * stat (size of file in bytes, kb, mb, gb...)