CYBZAZY

Assembly

Guide to Installing the Lab software

Prerequisites

- Install Ubuntu 16.04 in a Virtual Machine (VMWare or Virtualbox)
- Have a Linux Computer

Install libraries

sudo apt install nasm gcc-multilib vim

Install Template

Download the file

wget http://cs.unk.edu/~miller/templateMake.tar.gz

Extract the software

tar zxf templateMake.tar.gz

Install software

./templateMake/fix.sh

Logout

Create a project

genMake.sh MyProject

Create a Project

Create a project

genMake.sh Hello

Enter the projects directory

• cd projects

Show files in directory

Is

Enter the new project directory

- cd Hello
- Is

Use an editor of choice

• I use VI, it's everywhere

```
👚 ~ — milhous@unix: ~/projects/Hello — ssh -l milhous unix — bash — 80×24
%include "asm_io.inc"
segment .data
hi db "hello", 10 , 0
segment .bss
      global asm_main
                             ; setup routine
      pusha
      ;************CODE STARTS HERE**************
      mov eax, hi
      call print_string
      eax, 0
                             ; return back to C
      mov
      leave
      ret
                                                      21,0-1
                                                                  All
```

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- vi Hello.ash Add a string at the top
 - hi db "hi",10,0

Add a call to print string

- mov eax, hi
- call print_string

Compile, run, repeat

make

