ICS OS

Download at: https://github.com/srg-ics-uplb/ics-os

To run:

1. If your gcc version is 5.X, remove all the 'inline' keyword in the source code.
2. Make sure that the Makefile inside the Kernel folder is compatible with your system's architecture (32 or 64 bit)
3. make clean (remove all previously generated files)
4. make (compile all necessary files)
5. make install (created floppy)
6. Run the emulator with the following commands: qemu-system-i386 -fda ics-os-floppy.img

Possible types of program:

1. console-based
2. application

To create a console-based program:

1. Check out ics-os-master>ics-os>kernel>console>console.c. It contains all the functions you can use to manipulate command line arguments.
2. You may edit this file to add more commands and/or text-based applications, or create a separate file in the same folder as long as you include that file in console.c accordingly.

To create an application-based program:

1. Check out ics-os-master>ics-os>contrib
2. Create a directory for your application's source code
3. Develop your application here
4. ics-os-master>ics-os>sdk contains libraries you can use in your GUI
5. You may check ics-os-master>extras for sample codes

To install application with GUI:

1. In the contrib directory, inside the project's folder, build and install the application
    a. make
    b. make install
2. Install the application in the ics-os disk image
    a. cd ../../ (Go to ics-os directory)
    b. sudo make install
3. Run qemu
4. In the ics-os, go to the apps folder and run the executable file of your application
    a. /icsos/ %cd apps
    b. /icsos/apps/ %[appname].exe