**Systems and Tools**

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5 Features of Windows 10

1. The Clipboard

The Clipboard is where your copied words or pictures go when you copy, cut, or use shortcut buttons to store things for pasting. It is accessed in Microsoft word or paint when you right click. You will see the clipboard with paste options after copying, cutting, or taking a screenshot. I think the clipboard works by storing all of the information in an array, and then it pastes it into any other media you may be using. For instance, you may copy the string of words, “hello”. It will then be added to an array of characters where array[0] is h, array[1] is e, and continues until the array contains the chosen string. It will then loop through the array to add the string back to your program when you paste the word.

1. Shortcuts

Shortcuts are created to more easily open programs on your computer. Shortcuts are, in essence, simply buttons on the desktop of your computer. These are accessed simply by closing other windows to show the computer desktop. When you click the button for a shortcut, it sends a command to run the .exe file located in the uri where the program resides in your system. The .exe file then runs its usual processes.

1. Search

Search helps find files on your computer. It can be found at the bottom left side of your desktop by the start button. Simply click inside to access it. I think this works similar to grep in Minix, but it searches the computer directory instead of a single file. It searches all files on the computer for a certain string of characters in their name, then displays the files with names that contain your search word.

1. File Explorer

File explorer shows a GUI for the files contained on your computer. File explorer is the folder directly next to the search box in Windows 10. Click this folder to open your file locations. This works by finding the files located on the hard drive and making them into a visual representation. I think it works by searching the system for main file locations, such as desktop, C:, or downloads. Then shows any files that are located inside of these. It may do this by containing these in a tree. Where each main folder is a branch, and the computer is the root node. This would allow each main folder to have branches that have additional branches to reach into until the end of the branch. It would then output these in a visual way for user friendliness.

1. Print-Screen Button

This takes a screenshot of the current screen as seen by the user. This is located at the top right of your keyboard, just above backspace on a laptop, or near delete on a standard keyboard. I think this works by saving the pixels that are currently displayed on the screen. I am not sure if it saves it into an array, a tree, a list, or other means of saving. I know, however, that it does save this to the clipboard in Windows 10. You can then paste the image to your chosen program such as paint. I think in this case, it simply outputs the pixel locations to the medium that you choose. In the case of a location where the image is saved, such as previous Windows versions, I believe it simply saves the pixel locations as a single picture for later use.

Resources(Used for Hello.c)

Command Line Interface. (n.d.) Retrieved January 21, 2018 from website http://wiki.minix3.org/doku.php?id=usersguide:commandlineinterface.