

Installation and Getting Started Instructions for VisibleZ

August 25, 2016

1. Create a directory for VisibleZ.
2. Download the executable jar file : <http://csc.columbusstate.edu/woolbright/VZs/RunnerB.jar>
3. Move the jar file to the directory.
4. Download the Codes.zip file : <http://csc.columbusstate.edu/woolbright/VZs/CODES.zip>
5. Unzip Codes.zip and move the Codes directory to the directory you created in step 1.
6. Create a shortcut for the executable jar file and click it to start VisibleZ
7. With VisibleZ executing, click on the Settings tab and enter the path to your Codes directory (currently mine is c:/mar2016/codes), then click SAVE.
8. Click on the Enterprise tab.
9. Click the Load Program button and select a program you want to run. The Codes directory is populated with code snippets to test particular instructions. For example, choose ap.obj to run a program that tests the add packed decimal instruction.
10. Execute one instruction at a time by clicking the Cycle button.
11. Most programs will cycle back to the beginning, but you can reload the original program anytime by clicking the Reload Program button.
12. Click the Reset PSW button to position yourself at the beginning of a program.
13. You can set a single stop by clicking the Set Stop button and entering a hexadecimal address.
14. After setting a stop, you can execute all instructions up to the stop address by clicking the Go To Stop button.
15. You can pass parameters to a program by selecting the Parameters tab. Click on a parameter and type a value. When you have set up the parameters, click the Load Parameters button. This will establish the parameters, a parameter address list, and R1 will contain the address of the parameter list.
16. VisibleZ can read up to 3 files and write up to 3 files. Each file is sequential with 80 byte records. The DD names must be FILEIN1, FILEIN2, FILEIN3, FILEOUT1, FILEOUT2, AND FILEOUT3. Select the JCL tab to establish the files. Select a file and enter a fully qualified address for it on your machine. Click the Add DDs to establish the connection to your files.
17. VisibleZ can be configured with a variable amount of memory - it is distributed with 4K of storage. This may sound small, but is more than sufficient for most educational programs. The upper part of that storage is reserved for the "operating system" and supports SVC calls. This area appears in gray. Configuring VisibleZ with more memory involves modifying MEMSIZE in the Runner class and recompiling.