Intro to Computing Lab Paul L. Bailey Laboratory I - Creating a DOS Command Line Icon

Creating a DOS icon

To create a DOS icon to access the command processor, follow these steps.

- (a) Right-click on the desktop.
- (b) Select New/Shortcut.
- (c) Type CMD at "Type the location of the item".
- (d) Type DOS Shell at "Type a name for this shortcut".
- (e) Click Finish. This created an icon on the desktop.

Now double-click the new icon. You should see a window containing the text

C:\WINDOWS>

followed by a blinking cursor. This is called the *DOS prompt*; the computer is waiting for you to input a command. Type dir; this will list all files and subdirectories in the current directory. Always type the <ENTER> key when you are done typing a command, to tell the computer to begin processing the command.

We have three problems:

- (1) The current directory is directory WINDOWS on the C: drive (why would we want to be there?).
- (2) The order of the files is the order in which they were created (not too useful).
- (3) The color of the text is an ugly grey.

To modify these problems, we change some properties of the icon.

- (a) Right click on the DOS Shell icon.
- (b) Select Properties.
- (c) Change the entry in the Target box to

C:\WINDOWS\SYSTEM32\CMD /S /K "SET DIRCMD=/OGNE && PATH C:\UTIL;C:\WINDOWS\SYSTEM32"

SET DIRCMD=/OGNE causes directory list to be sorted with subdirectories first, then by name, then by extension. PATH C:\UTIL;C:\WINDOWS\SYSTEM32 allows DOS to find executable programs in the C:\UTIL directory as well as in the C:\WINDOWS\SYSTEM32 directory.

(d) Change the entry in the "Start in" box to

C:\

- (e) Select tab Colors.
- (f) Change "text" to green and "background" to black.
- (g) Select tab Layout.
- (h) Change "Screen Buffer Size Height" from 300 to 25.

Trying DOS Commands

Click the DOS icon. At the prompt, type the following commands.

(a) CD

This DOS command displays the current directory; you should see CD:\.

- (c) DIR UTIL This OS command lists the directory C:\UTIL. Files ending in .EXE, .COM, and .BAT are the *executable* files. Since C:\UTIL is in the path, these should be accessible from any directory.
- (f) MD TEST

This DOS command makes a directory named test, where we will store new files which we make.

Downloading Utilities

Utilities are programs which to little tasks for us. Command-line utilities act as extensions to the set of DOS commands, as long as the command processor knows how to find these files. Proceed as follows.

- (a) Open My Computer. Select C:. Right click in the window, over a blank spot. Select New/Folder. Type download, and press the <ENTER> key. This makes a directory called download off of the root directory; this is where all downloaded files should be temporarily stored.
- (b) Again, right click in the window, over a blank spot. Select New/Folder. Type util, and press the <ENTER> key. This makes a directory called util off of the root directory; this is where the utility programs will eventually be stored. Double-click on the new folder.
- (c) Open Internet Explorer. Access the web site http://www.saumag.edu/pbailey, and navigate to the Intro to Computer Lab page. Click on Utilities. Click on Save. Enter C:\download as the save location, and press the <ENTER> key. The file UTIL.ZIP should now be downloaded into the download directory.
- (d) Click on Open. Select File/Select All. Right-click on the highlighted file names, and select Copy. Move the mouse arrow to the util window, right-click, and select Paste. This should copy the downloaded files into the C:\util directory.

Trying Utilities

Click the DOS icon. At the prompt, type the following commands.

(a) CD TEST

This DOS command changes your current directory to C:\TEST, where we will make our own files.

(b) ASCII

This utility displays an ASCII chart. Use the arrow keys to move around. Type $<\!\!\text{ESC}\!\!>$ to exit.

(c) CALENDER

This utility display a calender. The arrow keys find the month. Type **<ESC>** to exit.

(d) MD TEST

This DOS command makes a directory named test.

(e) EDIT POEM.TXT

This utility is a text editor. Try typing a poem. Press the $\langle F1 \rangle$ key for help. Press $\langle F3 \rangle$ to save and exit. Press $\langle ESC \rangle$ to exit without saving.

(f) VIEW POEM.TXT

This utility display the poem without allowing edits. Press <ESC> to exit.

(g) DUMP POEM.TXT

This utility display the ASCII values, in hexadecimal, of the characters stored in the file.