

President's Report 7-1-91

Summertime! When the nights are short and the computing time is shorter. Seems I sit here at the keyboard for only short periods of time during these HOT months. To many other things to do. We also notice that there's a drop in club meeting attendence during these dog days of summer and that is unfortunate. Some of our most informative meetings have taken place during the summer. Such as the presentation of the MM-1 computer system and last months OS9 for beginners show by Al Wagner. These were both exellent meetings with tons of usefull information being passed about. This July's meeting will be on the subject of utilities, now who doesn't need or use these little jewels! So if you can plan to attend the July PJCCC meeting.

Rick

Secretary's Report 7-1-91

The June Penn Jersey Color Computer Club meeting was called to order by the President. The minutes of the last meeting were approved as written in the 6809 newsletter. The Treasurer's report was also approved as printed. There was no old bussiness pending and the was no new bussiness discussed. The meeting was closed and Random Access took place with a discussion on many topics concerning Coco. A fine prentation was held on OS9 from a beginners view by Al Wagner. Al not only provided a solid presentation but also provided a 3 speed fan to cool his audience.

Sysop Report 7-1-91

Your PJCCC Bulliten Board System continues to grow! Over calls and 150 message posts have been logged along with our first out of state call from Minnesota. Again I wish to recommend users take advantage of our file system on the Maverick BBS, there are alot of fine files available for download there! A look this month will fine a file called Z3.BIN. Many in the PJCCC have used "Z" for the Coco 2 and loved its ease of use. However when they upgraded to the Coco 3 they found "Z" would no longer work! Well the new version is now in the files section here. One word of caution "Z3" does not like Owl-Dos and it's been my experiance that you should be very carefull with your first uses of "Z3" ie. Don"t use it on valuable data right away, first try it on some old scrap files to make sure you have no compatiblity problems. I've bombed some important disks before I found out that "Z3" and Owl-Dos don"t mix.

Since this month we will be discussing utilities at the meeting, I've deceided to pack the BBS files with more utilities. So have a look around and feel free to pull any of



those files listed on your BBS. And as always if you encounter a bug or get lost as to how to do something feel free to page me by pressing "C" during your logon or call me voice at 767-9344. I'll do whatever I can to get you online including setting up your system at your house if need be and time permits! Our goal is to have all PJCCC members online!

Rick Hengeveld Sysop Maverick BBS 760-0456 8N1 300/1200 baud 7 days a week 24 hrs. a day!

THE LIBRARY CAR Al Wagner

Welcome once again to the PJCCC 6809 Express Library Car. This month I'll dispense with the excuses, just watch that you don't trip over something trying to find a seat.

- If you were one of the privileged few to attend the June meeting of the PJCCC, I was able to show you how to boot an OS9 disk, how to format a disk, a bit of a demonstration of the OS9 directory trees, how to run the config program, and we discussed some of the features and drawbacks of OS9. What I'll cover this month is a review of the directory tree structure, the two directories that are active with OS9 and a few miscellaneous things that come along for the ride.
- What is a directory tree? Well, picture a real tree. the bottom supporting the whole tree is the root (primary From that are various branches (more directory). directories) and from some of those are more branches (still more sub-directories). This branching continues until finally comes to the leaves (the actual data files Some branches may have leaves as well as other <code>_programs).</code> branches. Let's relate this to OS9 and RSDOS. With RSDOS there This would be the ROOT directory. is only one directory. files are in this directory and it can NOT contain any other directories. It makes for a very boring tree. One central stem with leaves.
- The directory that is created when Now let's look at 059. the disk is formatted is called the ROOT directory. directory will be at the bottom of all other directories or files. On a system disk (a disk that can be booted), there will usually be at least three things. They are two files (OS9Boot and startup) and a directory (CMDS, more on this one shortly). OS9Boot is one of the files that are needed to make the OS9 system work (there are others that are hidden and do not anywhere using "normal" methods). It contains the information on the drives, monitor, file handling, the printer and many details about the hardware that are setup when config is other The startup file is optional but is usually included. This file is actually what is referred to as a PROCEDURE FILE. What this means is that this file is actually a series of commands that could be entered manually from the keyboard. file usually contains the command to set the time, possibly a

\ LETTERS

etc.

3

you type a command such as LIST, the computer goes through a search for the command. The SHELL (itself a small program) receives the command line from the keyboard and begins It first looks in RAM. If the command is not found the search. there it then looks in the execution directory. If found. immediately loads it into memory and executes it. If not, then it tries one more place. It looks in the data directory and if assumes it to be a procedure file (a list of keyboard commands) that it then proceeds to execute as if the command(s) If it still can't find the typed in from the keyboard. command, it gives you an error number. In this case it would usually give error number 216, file not found. One thing that you might have noticed about this is that the system does not expect and in practice will not have all commands in memory all This allows OS9 to have a large variety of and still be able to run in minimal amounts of memory. command is completed, if it were not in memory to begin with, it is kicked out of memory freeing that space for other things. also allows commands to be added or deleted easily as it only requires the addition or deletion of a file and not complete software rewrite. One possible drawback to this is that the execution directory must be available to the system at almost all times. I say almost all times as there are ways around this for specific situations. I'll cover more on this in a later installment.

As might be expected, since there are two directories that are active, there are two ways to access them. If you type DIR(enter), you will get the data directory. But if you type DIR X(enter), you will get the execution directory.

One more thing about accessing directories. When you type DIR(enter), you will just get a list of the names of the files in that directory. OS9 though has much more information available about those files. All you have to do is ask! If you type DIR E(enter) you will see an amazing amount of data. (The E must stand for "Everything".) It will report the last date and the time on that date when the file was modified, who the file owner is (has to do with being able to have more than one terminal operating on one computer), the name of the file, the attributes (is it a directory, can it be executed, written to, read, and by whom), the starting sector and the size of the file.

brings us to the question, am I stuck forever with these two default directories? The answer of course There are two commands to change directories, one for each type. (Figures, doesn't it?) CHD will change the data directory and CHX will change the execution directory. But how do we tell OS9 where the new directory is? This brings us to what is known as A complete path starts with a slash and a device such the PATH. as /d0. D0 stands for drive zero. Let's say we have a directory on a disk in drive 2 called letters. In that directory we have two more directories, one called business and called personal. In those we can have still directories dividing up the letters by month, recipient, and/or In the personal directory, we have a directory other criteria. for each month and within those we have a directory for each recipient (this assumes you write more than one letter to each person each month). Say we write three letters to Rick in July, how might the tree look and how would we write a path to that letter.

- full path would be /d1/LETTERS/JULY/RICK/letter3. If we had to access the three letters several times that would be quit a bit of typing each time. To make things more convenient, we could change our directory to the one containing the three Wе letters. would do this with CHD<space>/D1/LETTERS/JULY/RICK<enter>. Now if we type DIR(enter), we would see the three letters listed that exist in that directory! Having changed our data directory, if we wanted to list the second letter mailed to Rick in July, all we need do is type LIST letter2(enter). To return to the original default directory all we need do is type CHD /DD(enter).
 - I know we've chatted a little longer than usual but engineer Pete tells me that the Express is going to skip the August run and I wanted to give you enough to chew on over the summer. We're pulling into the last station for this run. I'll see you at the July and August meetings. Have a good summer and oh yeah, don't trip on the boxes on the way out.

TREASURER'S REPORT By Clyde Gano

Statement date 6/28/91
Bal. on hand 6/3/91 \$235.95
Receipts-

0.00 -----Total Receipts \$235.95

Disbursements-Peter Unks 6809EX mailing

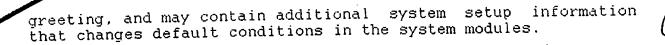
June - \$5.10

July/Aug.\$6.90 CK#248 \$12.00 Bell of PA June CK#249 8.42

\$ 20.42

Balance on hand 6/28/91 \$215.53

This issue consists of totally unedited copy right off our club BBS. Next issue (minus gremlins) will appear in Sept, See you at the summer meetings July 24 and Aug 30/





ROOT DIRECTORY

```
CMDS

attr

list

tmode

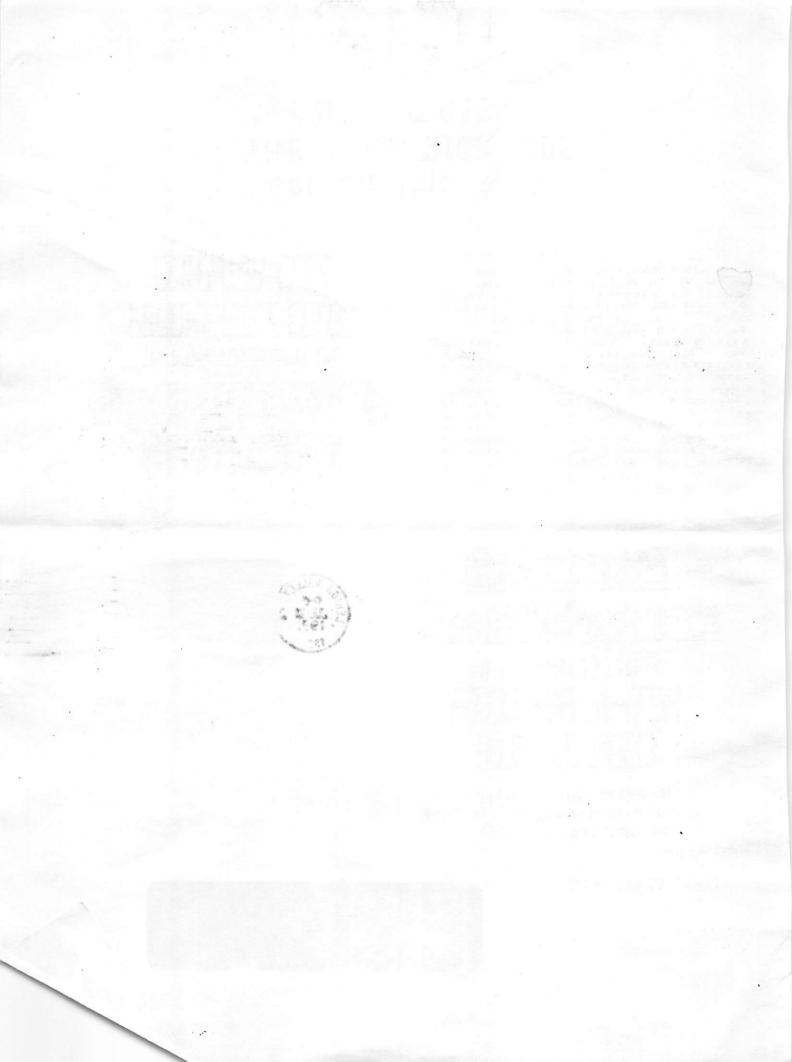
dir

and many more!
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One thing that might be noted from the above diagram is that directories are usually capitalized and files are not. This is NOT automatic. It is also not mandatory. It is just a convenient way to recognize a directory vs. a file. Now back to our discussion of the startup file.

For instance, let's say that you intend to use the LIST command to display files to the screen. As the system comes, the file would fly past as quickly as the computer and the disk drives could get it up on the screen. To modify this condition, one could use the TMODE command to cause the computer to pause whenever a screenful of data has been displayed. You could put this in the startup file as the command line "TMODE .1 PAUSE". There are many other such modifications that can be made to customize your system. Procedure files can actually get complex enough that one could think that they are witnessing the execution of an application program. We will discuss this in depth another time.

The other "file" one would see is actually the CMDS directory. Contained in this directory are all the commands that you have at your disposal. Tmode and List would be listed as files in this directory. This brings us to the two directories that OS9 uses to do its work. These directories are known as the EXECUTION and DATA directories. Upon bootup, the execution directory defaults to the CMDS directory and the data directory defaults to the root directory.



215-760-0456 THE MAVERICK BBS diw anil no 190

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H. Peter Unks, Editor



FIRST CLASS MAIL

Mr. Eric Rhyder