# P-code tool V6.0

A tool that you can use as an replacement for some of the tool of the Filer and the Editor of the P-code System

This program contains the following Filer commands:
Change name of files or volume
Change the date
Extended directory list
Crunch
List directory
Remove files
Transfer file
(by saving it in Windows and transferring it to another disk, or printing it)
Zero, create a new P code disk

You still need the Filer for the following commands:
Bad blocks
Get workfile
Make file
New workfile
Prefix
Save workfile
Volumes
What workfile
Examine for bad blocks

Version 3.0 may hang if the cluster table in the File Descriptor Record was corrupt. This version V3.1 has absorbed this as much as possible. Also P-code floppies with a damaged directory are more likely to be read as well, so you are able to save any undamaged files.

In Version 4.0, I changed the sector order in the tracks of the 1440 sectors disk. The documentation on this is not unambiguous, so I have now taken an existing, well-functioning dsk file as a model. You can now also open a text-file by double-clicking.

With Version 5.0 you can get from (and save to) Windows any file, without extra data that Pcode normal needs for his files. Also an error 'Illegal character in text' is fixed.

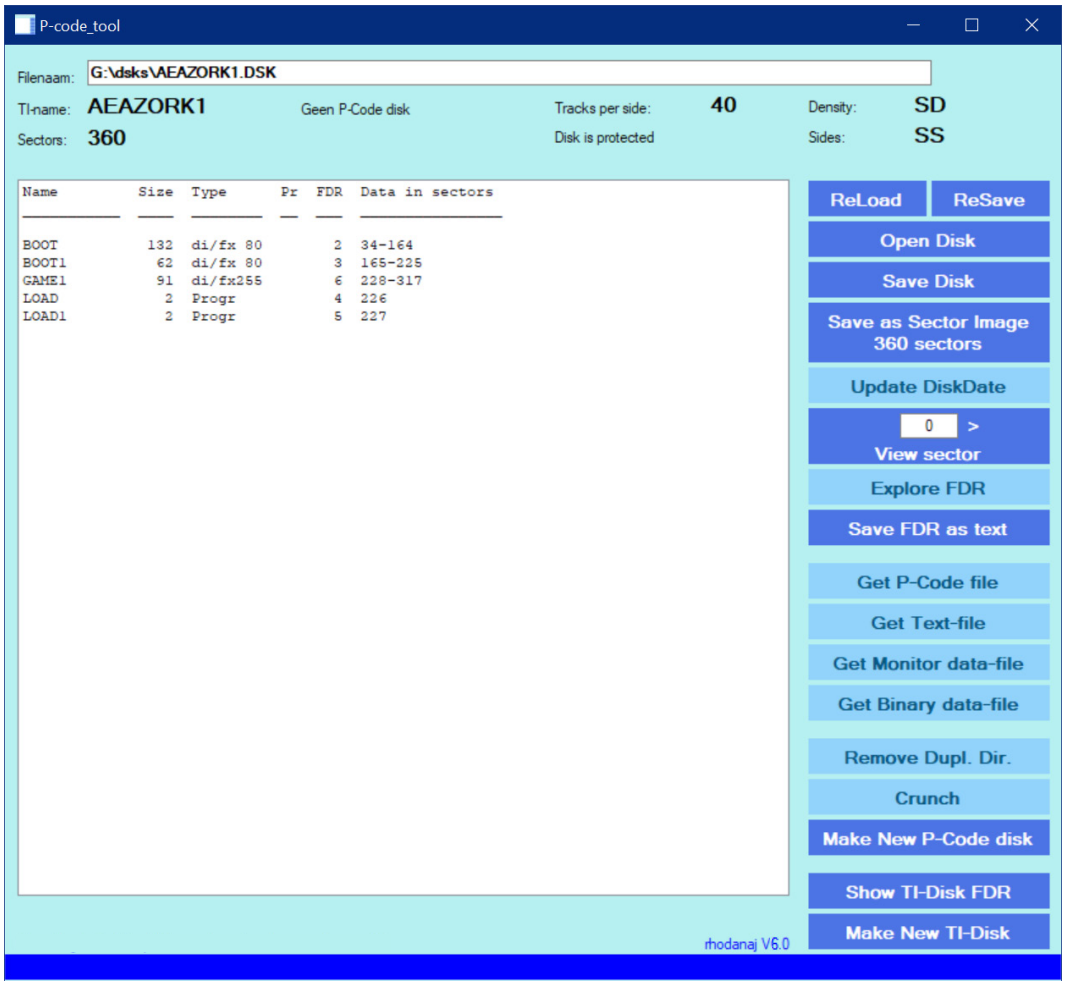
With Version 6.0 it is now possible to get a P-system file without file info into a disk with 'Get P-code file'. An other possible 'Illegal character in text' is fixed.

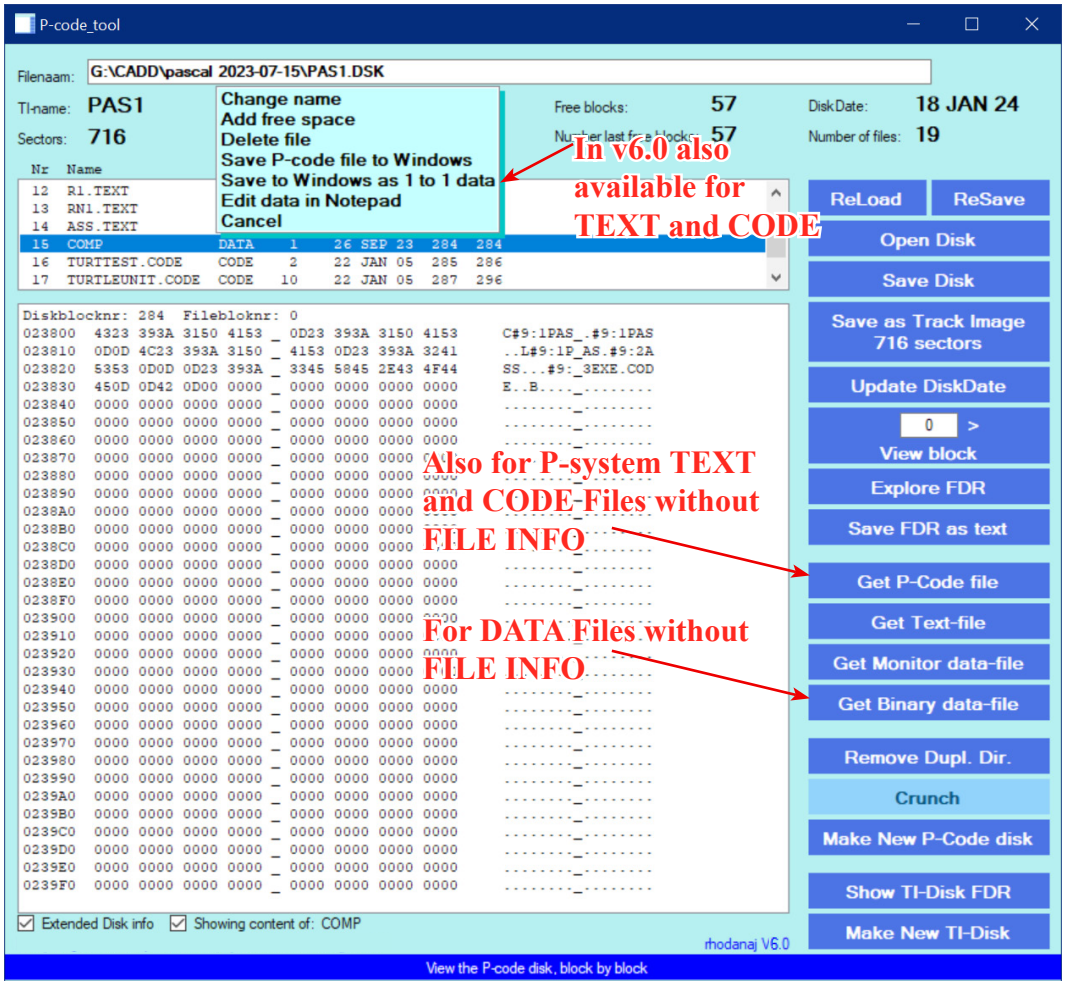
I made this program to work more easily with the P-code system on an emulator of the TI99 / 4 computer. Anyone who thinks this program is useful for him too, can use this program for free.

Despite many tests, it is of course possible that the program does not do, what you would like it to do. I cannot be held accountable for this. But you can let me know, so I might be able to find a solution.

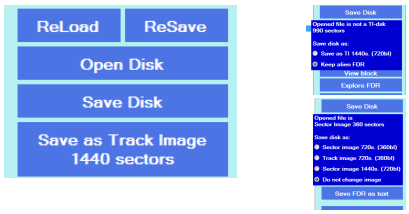
This program is made in Visual Basic. Problems, bugs or suggestions can be sent to:
rhodanaj101@gmail.com
Click in the program at rhodanaj to get the link for the latest version.

Without the info at the website of Peter Miller,
ucsd-psystem-fs.sourceforge.net/
I would not have been able to make this program. I thank him for this.

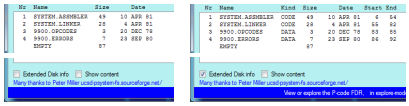


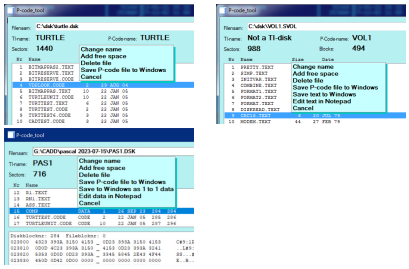
With P-code_tool you can change the Ti name or the P code name by typing the new name in the name box.




With “Open Disk” you can open a disk and resize it or switch between Track image and Sector image with the “Save as” button. After this you can save the disk with “Save Disk”.
“Open Disk” can also read some disks that have P-code files, but are not formatted as a TI disk. Files with the extension “.DSK”, “.SVOL” and “FLY” are displayed. Files with other extensions you can try opening with “Show all files (*. *)”. Normal P-code starts at 400 Hex.
With the “ReLoad” and “ReSave” you can quickly load or save a file that is already open.
**You have to use ReLoad when you have changed something on the disk in the emulator.** With ReSave the version that is in the P-code-tool will be saved on the disk, overwriting the old.



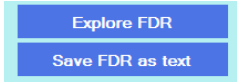
By clicking on (under-left) the “Extended disk info” check box, you can switch between the list and the extended list of the directory.



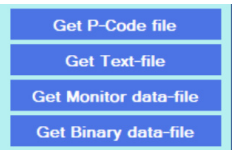
If you click on any of the files with the right mouse button, you can rename the file.
You can also add free space before this file if you wish (I needed this to test the Crunch function).
It is also possible to delete the file or to save the file in Windows as a complete P-code file, which you can retrieve and load on to another P-code disk. The amount of blocks and the FDR data is stored at the end of the file as 24 bytes. By clicking the right mouse button on a text file, you can save the text as a text file in Windows or edit the text in Notepad. This is why I wanted to make this program in the first place :-). If you close notepad, the text file will be added to the end of the list, the old text file will be deleted and the disk will be Crunched. The date of the disk is being updated. Left-double-click on a text-file will also open it in Notepad. When you save a text file as a P-code file in Windows and retrieve it, the file will be just the same. If you save a text file to Windows as text and retrieve this file again (or if you get another text file from Windows), the file will be first converted to a P-code text file. When you have a data file that you want to be just the same in Windows, you can now save this file to Windows with “Save to Windows as 1 to 1 data”.

Changing something in a text file will update the disk’s date, but the “Update DiskDate” button also allows you to do this manually.

View block allows you to view any 512 byte block (or 256 byte sector if you have a disk without P-code).



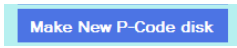

With “Explore FDR” you can see the File Diskription Record. If you move the mouse over the table, you will see the hex values. I needed this when I made this program and I just left them in when I finished it. “Save FDR as text” allows you to save the list, extended list or TI-FDR as a text file in Windows.




With “Get P-code file” you can load a P-code file, which you saved with the right mouse button, from Windows back to a P-code disk. In this way you can copy a file to an other disk. The FDR info is placed at the end of the file. You can also get a file without file info. You have to tell if it is a text or a code file.
“Get Text-file” allows you to save a normal notepad text file on the P-code disk as a P-code text file.
With “Get Monitor data-file” you can try to create your own (monitor) data file in windows and put it on the P-code disk. Save a (monitor) data-file from ‘Edit data in Notepad‘ to Windows so you can see how it looks like, it is just a text file. All ascii-codes that are not text are place between brackets [ ].
With “Get Binary data-file“ you can get any file to the Pcode disk as data file. This file is exactly the same as the Windows file. This file can also be a P-system data file without file info. You can save this file to Windows again with “Save to Windows as 1 to 1 data“ by right-clicking on the file.

With “Remove Dupl. Dir” you can create or delete the duplicate directory.

With “Crunch” you remove all empty spaces between the files on the disk.




You can create a new P-code disk with the “Create new P-code disk” button. This can be a disk of 180, 360 or 720 blocks.
Note that you need a dual density disk drive emulation to use a 720 block (1440 sector) disk. Not every P code system emulator program does warn you when you store data beyond the 360 block, when you use a 1440 sector disk on a 720 sector emulated disk drive. Also not every P-code emulator itself can handle 720 blocks.

With this P-code tool you can also create a blank TI disk or display the FDR of a TI disk.
TI sector-image disk files can be saved as a TI track-image disk files with the
“Save As” button and back to TI sector image.

You can view the contents of a file by clicking on a file and selecting “View Contents.”
For text files, you can also read the text by selecting “Display Text”.

The way I use this program is through:
1.open DSK1.DSK with “Open Disk” (the same disk that is open in P-code system)
2. change the source code file
3. save the disk with “ReSave”
4. go to the P-code emulator and compile the program
5. Repeat 2 to 4 until the program is error free

Rhodanaj - March 2024 - V6.0