**7/3/2023**

* **Installed Power director 365**
* **Mapped drives:**
  + **M: \\xps-8930\Music**
  + **V: \\xps-8930\Video Projects**
  + **P: \\xps-8930\My Pictures**
  + **See:**
    - https://support.microsoft.com/en-us/windows/map-a-network-drive-in-windows-29ce55d1-34e3-a7e2-4801-131475f9557d
* **Managed to open the “Erie Canal” project**

**7/5/2023:**

* **I need to create “My Private Desktop” on ASUS**
  + **Seems like the old desktop has vanished**
* **Mapped drive:**
  + **Project: V:\Hiking\Erie Canal**
* **My latest Power Director (pre PD-365) is Power Director 14.**
* **PD is looking for “CanalBoatCruise0010.jpg” (and others). Found it but not the latest (PDS) file.**
* **I need to update files on the K: drive.**
* **I need to update the BackupVideoProjectsBP.bat file in “Scheduled Tasks”.**
* **Where does the daily scheduled back put video projects? Old batch file copied from C: drive to E: and F:. I now need to go from the F: drive to somewhere else. SurfacePro?**
* **The Erie canal video whose source I am looking for was produced on April 8, 2022 (04/08/2022).**
  + **A copy of the video is located in “Produced”:** 
    - **F:\NDAS-I\My Pictures\My Videos\Produced\Erie Canal.mp4**
  + **This appears to be a ProShow project.** 
    - **A copy of the project exists on the SurfacePro as this file: F:\NDAS-I\Videos\Video Projects\Hiking\Erie Canal\Erie Canal.psh**
    - **A copy exists on the XPS-8930 as:**
      * **F:\NDAS-I\Videos\Video Projects\Hiking\Erie Canal**
  + **See K:List of PDS files.txt for a list of pds files located on K:**
  + **I need to install ProShow on XPS-8930**

**7/6/2023:**

* **I saved the “40th Anniversary” project to “V:\Friends\_Family\Company\2022 40th Anniversary\40th Anniversary\. This copied all of the data files to there.**
* **I have loaded DVD [1151] which has all of the DropBox info as of 11/24/2022 including the “40th Anniversary” stuff which was used in the video.**
* **K:\Location 27 - Video Projects\[1151] Dropbox- 11-24-2022\40th Anniversary**
* **How do I randomly generate transitions and slide stuff in Photopia?**

**7/7/2023:**

* **I would like to find the styles that I created (such as “Fill frame (no caption)”)**
* **I need to re-define P:, M: and V: on SurfacePro**
* **Move “2019-2020 Videos.iso” from “V:\Friends\_Family\2020 Summary” to “P:\DVDs”**
* **How to connect to XPS-8930 from SurfacePro. See “Misc Tech Notes”. Enter user as “xps-8930\Dan”, password = ‘duluth03’**
* **Maybe I can edit using ProShow on the SurfacePro and then render on XPS-8930? I am working on “V:\Friends\_Family\Company\2022 40th Anniversary\40th Anniversary.psh”**

**7/8/2023:**

* **Location of PhotoDB.accdb:**
  + **PhotoDBDatabaseFileName = 'F:\NDAS-I\Shared Programs\PhotoDB\PhotoDB.accdb'**
  + **HikingDBDatabaseFileName = 'F:\NDAS-I\Shared Programs\HikingManagerProject\Hiking.mdb'**
* **ProShow Producer**
* **See:**
  + **<ctrl><alt>G - goto next flagged slide**
  + **Slide / Scaled Slide / Fill Frame**
  + **Layer Settings / Layer setup / Fill Frame**
* **General parts of video (I am not finding these photos in the DB? Using wrong DB)**
  + **Letchworth Gorge**
    - **(6) Letchworth Dinner [~54]**
    - **Ruth and I**
    - **(4) By the Gorge [~29]**
  + **House where we stayed**
    - **(5) Animals**
    - **Campfire**
    - **Tie Dye party**
  + **Porter and Claudia’s house**
    - **(3) By the Lake {28]**
    - **Boating**
  + **Ben and Sarah**
    - **Wizard of clay**
  + **Canandaigua**
    - **Wegman’s**
    - **(2) Canandaigua Elementary School**
    - **Kershaw Park**
    - **Downtown**
    - **NY Kitchen cooking class**
    - **(1) at our house**
  + **Perry NY**
    - **Lumberyard Restaurant**
* **Currently**
  + **PhotoDB**
  + **ProShow Producer**

**7/10/2023:**

* **Locations (on Surfacepro)**
  + **Music.mdb - C:\D7\Projects\Photo DB\Units**
  + **previously: '\\xps-8930\Users\dhdor\Music\MusicDB.mdb'**
  + **MusicDB (XPS-8930).ini - C:\D7\Projects\Photo DB\Units**

**7/11/2023:**

* **Looking for old copies of my Music folder**
* **Found it on the SurfacePro: “\\surfacepro\SurfacePro-C\Users\dhdor\Music\iTunes\iTunes Media\Music”**
* **Be sure to make a copy of the Music folder**
* **Add the Music BD drive to MediaCatalog**
* **I am renaming C:\Users\dhdor\Music\iTunes\iTunes Library.itl to iTunes Library.itl-saved**
* **I added the Music folder M: to iTunes**

**7/17/2023:**

* **PhotoDB: Default Location and Default State are not getting set in UpdateLocationInfoFromGPX because fTempPhotoTable does not yet exist. It does not exist until the “Update” button is pressed. Still skipping the first two locations. Description was already blank in the Locations table.**

**7/18/2023:**

* **Can I schedule the SurfacePro to wake up at noon? Apparently not.**

**7/19/2023:**

* **Is the XPS-8930 account for connections actually** [**dhdorrough@hotmail.com**](mailto:dhdorrough@hotmail.com) **rather than** [**dhdorrough2@hotmail.com**](mailto:dhdorrough2@hotmail.com) **? Yes. I think so. Password duluth03**

**7/20/2023:**

* **Need to copy the music folder to a DVD. Stored in the “Miscellaneous” (round) container (“M:Music”).**
* **The Garmin BaseCamp (“Database”) folder is located in “F:\NDAS-I\Shared Documents\Garmin”**

**7/24/2023:**

* **Missing photos:**
  + **19811231 Bruce, Della Collins, Judy Kish, David Dorrough.JPG**
  + **19751004 Marilyn (Crabill), David Dorrough; Wedding.jpg**
  + **1969~ Bill, Connie Ruebush.jpg**
  + **19811231 Bruce, Della Collins, Judy Kish, David Dorrough.JPG**
* **Substitute:**
  + **P:\Photo Albums\Judy Dorroughs photo Albums\Album 03\19811231 Joy Dorrough Sayger; Della Collins, Bruce Dorrough.JPG**
* **Projects revisited**
  + **01, 02, 03, 04, 05, 06**
* **Files were output to:**
  + **G:\Location 27 - Video Projects**
* **Working MPG**
  + **Moms Photo Albums (Album 02).mpg**
  + **Moms Photo Albums (Album 03).mpg**
  + **Moms Photo Albums (Album 05).mpg**
  + **Moms Photo Albums (Album 06).mpg**
* **Non-working MPG**
  + **Moms Photo Albums (Album 01).mpg**

**7/25/2023:**

* **Videos now located in**
  + **F:\NDAS-I\My Pictures\My Videos\Produced**
* **Today’s projects**
  + **Moms Photo Albums (Album 08).mpg**
  + **Moms Photo Albums (Album 09).mpg**
  + **Moms Photo Albums (Album 10).mpg**
  + **…**
* **Starting with Album 12, I used UltraEdit do do a global replace of “\\Gamer\ndas (i)\My Pictures” to “P:”**
* **Album X2 is missing a lot of photos**
* **The “Album 15” has entirely empty videos (not true?)**
* **The “Album Growing Up” also seems to be empty-- referring to previously produced videos “Album 01”...?**
* **The batch output .mpg (not .mp4!) are currently being placed in C:\Users\dhdor\Documents\CyberLink\PowerDirector**
* **Regen:**
  + **“Moms Photo Albums (Boy Friends)”**

**7/26/2023:**

* **Edited**
  + **Album X2 - added borders with shadow, removed pictureless segments**

**7/31/2023**

* **H.264 AVC, MPEG-4, 1280x720p (16 Mbps), MP4**

**8/1/2023:**

* **Working on “Moms Photo Albums (Album 03)**
  + **Main video is 106\_1258.MOV**
* **Possible videos:**
  + **Mom and her dogs**
    - **See: 106\_1258 about 07;59;08**
    - **See: 106\_1258 about 00;43;27 + 00;02;02 (Album 03) “Taffy Dog”**
    - **See: 106\_1258 about 00;06;01 + 00;24;10 (Alnum 03) “Taffy Dog”**
    - **See: 106\_1258 about 09;32;19 + 04;22;11 (Album 03) “Taffy dog”**
    - **See: 106\_1258 about 10;49;10 + 00;06;22 (Album 03) “Taffy dog”**
  + **Mom and her quilts**
    - **See: 106\_1258 about 09;32;19 + 01;16;18 (Album 03)**
    - **See: 106\_1258 about 09;32;19 + 01;16;18 (Album 03)**
    - **See: 106\_1258 about 08;22;16 + 00;04;24 (Album 03)**
  + **Mom and her boy friends**
    - **See: 106\_1268 about 00;18;15 (Album 03) “Chuck”**
  + **Misc**
    - **School where dad went: “198103 Swauger Valley Elementary School…”**

**8/17/2023:**

* **Old name: '0110530cca84b56920b22dfe0b3581907eacc1a9d1.jpg'**
* **New Name: ‘Renamed\20230817-102126.jpg'**
* **511 actual files**
* **Only 447 actually got renamed**
* **For example: 01066a23653a23348105fcaaefbcec454457825842.jpg → Renamed\20230817-102126.jpg fails multiple times**
* **There are 16 mp4**
* **Why do I not get an error message on failures?**

**8/18/2023:**

* **How do I get “Date Acquired” from an MP4 video?**
* **There are 16 videos**
* **Move the videos to F:\NDAS-I\My Pictures\My Videos\Friends\_Family\Trips\...**

**8/18/2023:**

* **For the camera pre-time change photos, I need to subtract four (4) hours for the first 6 photos which were taken in Seattle**
* **For the camera pre-time change photos, I need to subtract five (5) hours for the remaining photos in Pre Time Change which were taken in Alaska.**
* **I need to take the minutes to be added and convert it to a fraction of a day.** 
  + **I.e., for 60 minutes**

| * **MinutesChanged := 60;** | **-60** |
| --- | --- |
| * **MinPerDay := (24 \* 60)** | **1440** |
| * **FractionOfADay := MinutesChanged / MinPerDay;** | **-60 / 1440 = -0.04166667** |
| * **Date := Date + FractionOfADay;** |  |

* + **When importing the photos, I need to base the time on “Date Modified” rather than the EXIF date.**
  + **I moved “Dans Alaska Photos” to “C:\temp” on SurfacePro**

**8/19/2023:**

* **V:\Friends\_Family\Trips**

**8/22/2023:**

* **I updated: Alaska 2023P.mp4**
* **I made Alaska 2023 - Discovery Princess.mp4**
* **Re-do Seattle**

**8/23/2023:**

* **Phones:**
  + **Sarah (SED): iPhone 14 Pro**
  + **Kurt (KJM): iPhone 12; 16.5.1**
  + **Kat (KW): IPhone 12; 16.1.1**
  + **Ruth (RBD): iPhone Pro Max 13**
  + **Ben (BJD): iPhone Pro Max 14**
  + **Dan (DHD): Canon Powershot SX720 HS**
  + **Dan (DHD): iPhone XS**
  + **Jacob (JGW): iPhone 13; 16.3.1**
  + **Ellery (EKW): iPhone 13; 16.6**

1. **Cities visited**
   * **8/8/2023: Ketchikan**
   * **8/9/2023: Juneau**
   * **8/10/2023: Skagway**
   * **8/12/2023: Victoria**

**8/24/2023:**

* **Remember to restore PhotoDB changes**

**8/25/2023:**

* **'(ADDED >= (Today()-2)) AND (EXIFInfo('Model)='iPhone 14 Pro')'**
* **Is PhotoDB.ACCDB getting backed up? (9/12/2023- Yes?)**

**8/26/2023:**

* **What day did we see the Blue Angels? Sunday Aug 6. File is located in P:\My Videos\Friends\_Family\Trips\2023 Seattle - Alaska\Seattle\20230812-101005.mp4. Date on the file is incorrect.**
* **Many of the videos do not have a location yet and some have incorrect dates**

**8/28/2023:**

* **Maybe I can just use the GPS tracks and waypoints to plot a best guess on route that the discovery princess took**
* **Video ideas**
  + **Ben & the bears**
  + **Salmon ladder**
  + **flowers**
  + **Totem poles**

**8/29/2023:**

* **Remember the scroll bar position for the thumbnails tab**

**8/31/2023:**

* **Currently working on “Moms Photo Albums (Album 05).pds”**

**9/1/2023:**

* **Completed Album 09**
* **Make a video with just the photos from Album 07 (no audio?)**
* **Currently working on “Moms Photo Albums (Album 14).pds”**

**9/2/2023:**

* **Edna Moody - tried to steal every boy friend that mom ever had= 106\_1262.mov 00;07;04;16**
* **Joe Brown - band in high school= 106\_1262.mov 00;08;46;06**
* **Chuck, Kenny - rode bicycle to house-= 106\_1262.mov 00;10;01;11**
* **Kenny Lakey = 106\_1262.mov 00;10;18;11**
* **Edna Moody = 106\_1262.mov 00;11;36;19**
* **Edna Moody = 106\_1262.mov 00;13;26;27**
* **idea: mom’s dogs**
* **Currently working on “Moms Photo Albums (Album 15).pds”**

**9/6/2023:**

* **Review the documents in “P:\Documents\” for privacy and upload all of those that are not private to the web site.**
* **Need to find an alternate place to keep “My Pictures” since they will all go away when the ISP no longer gets paid.**

**9/7/2023:**

* **Find the music that I acquired for David’s video. Found it (Gloryway CD) was on top shelf with the others CDs.**
* **Where is the project? Possibly: V:\Friends\_Family\Me\My Family\David\David Dorrough. Also: G:\Location 27 - Video Projects\[1113] David Dorrough**
* **Check DVD backups**
* **Raise the volume on the last song on the Saygers video**

**9/11/2023**

* **I don’t seem to have the base video (with mom) for Album 04 or 07 or 16.**
* **I DO seem to have the cover photo and photos (File Path # 5800) for “Album 07”**
* **Note the found video of Becky and Spencer**
* **Base videos usage:**
  + **Album 01: 106\_1260.mov**
  + **Album 02: 106\_1262.mov**
  + **Album 03: 106\_1258.mov**
  + **Album 04: (missing)**
    - **There is a photo of the album cover**
    - **There are photos for album 04 (File path #5797)**
    - **No obvious key in the videos 105\_1258..106\_1262)**
  + **Album 05: 106\_1260.mov**
  + **Album 06: 106\_1262.mov**
  + **Album 07: (missing)**
    - **There is a photo of the album cover**
    - **There are photos for album 07 (File path #5800)**
    - **No obvious key in the videos 105\_1258..106\_1262)**
  + **Album 08: 106\_1262.mov**
  + **Album 09: 106\_1262.mov**
  + **Album 10: 106\_1262.mov**
  + **Album 11: 106\_1258.mov**
  + **Album 12: 106\_1258.mov**
  + **Album 13: 106\_1262.mov**
  + **Album 14: 106\_1259.mov**
  + **Album 15: 106\_1262.mov**
  + **Album 16: (missing)**
    - **There is a photo of the album cover**
    - **There are photos for album 16 (File path: #5809)**
    - **No obvious key in the videos 105\_1258..106\_1262)**
  + **Album 17: 106\_1260.mov**
  + **Album X2: 106\_1261.mov**
  + **Album X3: 106\_1261.mov**
  + **Album X4: 106\_1262.mov**
* **Base videos used:**
  + **106\_1255: unused? only a 9 second video**
  + **106\_1257: unused? only a 1 minute video**
  + **106\_1258: xxx**
  + **106\_1259: x**
  + **106\_1260: xxx**
  + **106\_1261: xx**
  + **106\_1262: xxxxx xxx**
* **Video: Img\_0783.mov (Mom, Becky, Spencer) is not in the database. Yes. They are.**

**9/13/2023:**

* **What needs to be done before I can upload PhotoDB sources to GitHub?**
  + **Find the documentation**
    - **Update the documentation?**
      * **Remove private information such as “Sarah Derry”**
      * **Do I have a paragraph about the “Expression Editor”?**
  + **Program Changes Needed**
    - **Get rid of the “Internet” tab in options**
    - **Get rid of the reference to the Hiking database**
    - **Does “Go To Recno” in the Edit menu work? No. Option removed.**
  + **Create a “Getting Started” document**
    - **There is already a document “GETTING STARTED- READ ME.doc” in the doc folder.**
    - **note need to download/install the MS DB engine components**
    - **note placement of photo documents**
    - **note initial scan of documents**
  + **Create an “Overview” document (“GETTING STARTED- READ ME.doc”);**
  + **Create a manual for programmers**
  + **Learn how to use GITHUB**
  + **Create an empty Database**
  + **Gather all of the source files**
  + **upload to GITHUB**
* **I was working on “1.2.9.14 In Order by Lat, Lon”. Maybe I should try to use MicroSoft Word.**
* **\*.doc \*.docx files not be getting backed up.**

**9/14/2023:**

* **The “Import Document/Photos” dialog box *Cancel* button does not work.**
* **The filter “Has location in EXIF” check box does not work.**
* **What is the actual syntax for importing custom keys? Answer: “Key Value=”**
* **Currently working on “ x.x.x**  **Update Field in Selected Records”**

**9/15/2023:**

* **Export Selected records is trying to export to an .MDB database.**

**9/19/2023:**

* **The video that I am watching is:** [**https://www.youtube.com/watch?v=tRZGeaHPoaw&t=848s**](https://www.youtube.com/watch?v=tRZGeaHPoaw&t=848s)
* **The repository on XPS-8930 is: F:\NDAS-I\d7\Projects\UsedUnits**
* **The online repository is:** [**https://github.com/dhdorrough/Used-Units**](https://github.com/dhdorrough/Used-Units)
* **I would like to download .ADOBrowserdbignore to my local repository (but it is not in the project)**
* **Drive I: contains the portable version if .git**

**9/20/2023:**

* **f:\NDAS-I\TutorialProject**
* **C:\Users\dhdor\Documents\GitHub**
* **Add WordCountL and ExtractWordL to MyUtils**
* **Clean up MyUtils folder**

**10/2/2023:**

* **I moved the PowerDirector stuff from *P:\My Videos\Produced* to *C:\Users\dhdor\Documents\CyberLink\PowerDirector***
* **Change PhotoDB *Delete Missing Records* to properly handle confirmation**
* **I still haven’t finished *Mom’s Photo Album* videos**

**10/3/2023:**

* **Producing the Tecumseh video to: V:\Friends\_Family\Tecumseh Reunion\Produced**
* **Now located: V:\Friends\_Family\Tecumseh Reunion\Produced\2015 Tecumseh Reunion [20150106A].mp4**
* **Project file name is: V:\Friends\_Family\Tecumseh Reunion\2015 Tecumseh**

**10/4/2023:**

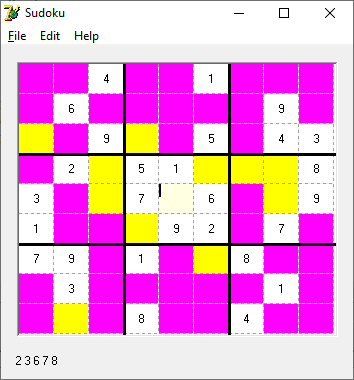
* **The newer photo appears to come first**
* **“Linda Huwer (Barnes) is missing**
* **The latest version of the 2015 reunion has been saved to: K:\Location 27 - Video Projects\Tecumseh\[0914] Tecumseh Project\2015 Tecumseh Reunion\Then and Now B.psh**
* **The latest produced was saved to: K:\Location 27 - Video Projects\Tecumseh\[0914] Tecumseh Project\2015 Tecumseh Reunion\Then and Now.mp4**
* **Need to backup the stuff on K:**

**10/9/2023:**

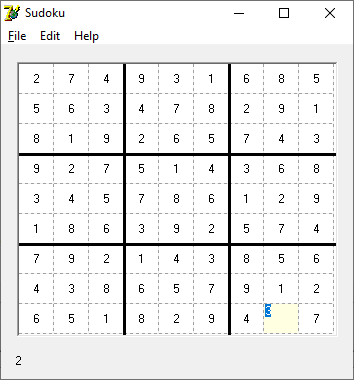
* **Working on *F:\NDAS-I\d7\Projects\Sudoku\SudokoMain.pas* and *F:\NDAS-I\d7\Projects\Sudoku\Sudoku Assistant.docx***

**10/10/2023:**

* **When hovering over the currently selected cell (row 3, col 5) in this case, “5 8” are listed as possibilities when 5 is already used in row 3.**
* **When *not* hovering over the selected cell, row 3 col 5 lists “7 8” as possibilities (which is correct).**
* **When selecting a cell, the possibilities list becomes incorrect.**
* **Conclusion: selecting a cell messes up the possibilities list**

****

* **After solving a puzzle, no message is given**
* **If I enter an invalid (duplicate) value, no error is given.**
* **This is apparently a solved puzzle:**

****

**10/11/2023:**

* **When hovering over the “Selected” cell, the aRow and aCol are both incorrect.**
* **aRow, aCol values are the “actual” row and column numbers (1..9) except for the selected cell which displays incorrect values (0 and 0)**

**10/12/2023:**

* **The ActiveRow and the ActiveCol are always correct**
* **The value displayed for the active cell is always wrong for the first row or the first column. It always displays the value from 0, 0.**
* **cdpForSave isn’t being handled**
* **OvcTable1MouseMove no longer references fIsSolved**

**10/13/2023:**

* **Still bad when it is the *Active*  cell.**
* **(almost) Everything gets moved left after clicking to make an active cell**
* **After making active cell, TableCol=1 is ignored. The values fetched appear to be the correct values for that TableRow & TableCol but they do not get displayed?**

**10/16/2023:**

* **Changed and then reverted Classes.pas (trying to add LineBreak)**
* **Changed Graphics to overload TextRect**
* **Should I be trying to install Orpheus 4.08 rather than 4.07?**
* **Opened and compiled:**
  + **O407\_r70.dpk**
  + **Tried to re-compile O407\_d70.dpk but got stymied by Graphics.TextRect. Needs an overloaded version which I do not have.**
* **Reverted SudokuMain.pas back to the previous version (got rid of Locked Row & Col). This brings back the problem with the active cell returning the wrong row & col.**
* **I tried substituting the version 4.07 OvcTable.pas but that just leads to lots of errors**
* **Currently, the ONLY cell with a problem is 0,0**

**10/18/2023:**

* **Need empty FamilyTree.mdb**
* **Put in constants fo “.ACCDB”**

**10/20/2023:**

* ***PhotoDB\* is the GitHub Version**
* ***Photo DB\* is my “current” local version**
* **Why is the initial .ini file referring to a .mdb file rather than an .ACCDB ?**
* **I need cn empty copy of PhotoDB.accdb (except keep the tables that might be needed)**
* **Add mention of .INI program parameter usage.**
* **Do I still want the ability to have multiple .INI files based on the the machine name?**
* **GNU General Public License version 2.0 (GPLv2)**
* **Should I upload the .EXE files to GITHub?**
* **As a general rule, for works created after January 1, 1978, copyright protection lasts for the life of the author plus an additional 70 years.**

**10/23/2023:**

* **Looking for an .MDB file by default.**

**10/24/2023:**

* **CRT\_Decl needs {?}** 
  + **TCrtInfo**
  + **TCrtFuncs**
* **Currently see LOADNOUNDESCRIPTIONS**
* **Note: READLINE works differently depending whether it is reading from the screen or from the datafile.**

**10/26/2023:**

* **Gave up on converting Adventure and restored from SurfacePro backups**
* **Update all GITHUB with Keywords**
* **On GitHub.com, navigate to the main page of the repository. In the top right corner of the page, to the right of "About", click . Under "Topics", start to type the topic you want to add to your repository to display a dropdown menu of any matching topics.**

**10/27/2023:**

* **Need to figure out why the requirement for a specific filename format (e.g. “CDnnnn.txt” (or something like that) is needed**

**10/30/2023:**

* ***Next Media ID* button is not going to work because the *Media ID* field is read only.**

**10/31/2023:**

* **Set xMedia\_ID**
* **Order by ID**
* **Order by FileName seems kind of dubious**
* **Need to be able to process directory listing**

**11/1/2023:**

* **F:\NDAS-I\Videos\My Music and Audio\Music**
* ***Location Name* is not getting set when scanning from HD**
* **Order by FileName is wrong. Related to calculated fields?**
* **Sorting on “*FileName*” is sorting on “*ShortFileName*” which is incorrect because the *ShortFileName* is supposedly a hashed version of the *LongFileName*. Made changes to the HashedFileName function in MyUtils.**
* **HashedFileName: 'Bring It On Home...The Soul Classics' says that the file name extension is '.The Soul Classics' which gets truncated to ‘The ’ and the HashedFileName returned is ‘The ’. Note that ExtractFileBase returns “”.**
* ***Volume Information* is getting displayed twice.**
* **When adding a location, it should be automatically selected. 'smith boys' <> '5: smith boys'. Now I select the last item in the drop-down list of locations.**
* **Cannot find the option to disable calculated field names (*cbDisableCalculatedFields)*.** 
  + **Found it and made it visible but is it useful?**
  + **Note: deleted it in the text view of the form, switched back to the form view, closed the form, ignored the warning messages and then reopened it.**

**11/2/2023:**

* **Call stack seems to be messed up when exiting VolumeInfo.FormShow. It appears to have been called from somewhere in Windows.**
  + **VolumeInfo.ShowModal is called from within ProcessVolumeInfo**
  + **It is first (?) called from within ScanVolume2Click when the VolumeInfo record cannot be found**
  + **Does ProcessVolumeInfo even need to be called?**
  + **Location\_ID is not getting set. See VolumeInfo.VolumeLocationID**
* **What does ProcessVolumeInfo Actually do?**
  + **Gets the Volume Serial Number and VolumeName**
  + **Gets the drive type → Volume Label**
  + **Tries to locate the VolumesTable record using the Media\_ID**
  + **If AppendingOnly**
    - **Either appends a new record or updates the found record**
  + **if NOT AppendingOnly**
    - **Tries to locate a volume record using the VolumeSerialNumber**
    - **If found, edits it**
    - **If Not found appends a new record**
* **Maybe I should ALWAYS append records and NEVER try to update**
* **I need to test what happens if the VolumeInfo record already exists-- i.e. by plugging a *Media\_ID* into the *Scan Volume*** **dialog that already exists.**

**11/3/2023:**

* **3 records updated**
* **Not defaulting to *Include All Extensions***
* **If D(VD is selected, it should imply dt = C(D**
* ***VolumeLocation* should be saved in settings.**
  + **Where is MediaSettingsForm loaded and/or saved? It is loaded and/or saved in the *Edit*  menu item of the main menu.**
  + **It should be using the Location\_ID- no longer used**
  + **The fLocationsList is a private property of the LocationsTable**
    - **It is loaded by LoadLocationsList which is called by VolumesTableCalcFields**
    - **It is also called by the TVolumesTable Constructor**
    - **The LocationsTable is a property of the VolumesTable**
  + **Should the MediaSettingsForm allow the location to be changed. No longer used.**
    - **Maybe the location should just be saved as a default**
* **Newly added location is not automatically selected**

**11/7/2023:**

* **Not listing legal locations**
* **Resizing the *Main* window does not move the status line**
* **After importing the *vol0001.txt* file, the only “Burmer” that shows up is *ID=2553, Media\_ID=1, Parent Folder = 0, File Name = “Richard Burmer” IsAFolder, This Folders ID = 85***
* ***CurrentFolder* is claiming itself as a parent sometimes**
* **When entering FindFolder, CurrentFolder seems incorrect**
* **“Directory of” lines do not always list the full path/name. Sometimes they get truncated-- probably a Unicode problem**

**11/8/2023:**

* **Look for places where the FindFolder command finds itself**
* **Hashnames are not always 16 characters-- probably a Unicode problem**
* **Some letters are invisible. -- probably a Unicode problem**
* **Logfile is now written to 'C:\Temp\LogOf\_vol0001.txt'**
* **Directory structure:**
  + **Richard Burmer (85)**
    - **SHINING by the RIVER Collections Volume (270)**
      * **Bhakti Point.m4a**
      * **Across The View.m4a**
      * **Curio Dance #2.m4a**
      * **…**
* ***“SHINING by the RIVER Collections Volume”* should be added to the *“Richard Burmer”* sub-folder.**
  + **That did not happen? (Or did it? I think that it did.)**
* **Read 4139 records. Added 2189 records (which is the number of records in the MSAccess DB)**
* **ADOX\_TLB.pas is currently located in c:\temp\imports**
* **Edit the log file**

**11//9/2023:**

* **I need to create ADOXCatalog1**
* **The ADOXCatalog is displayed in the ActiveX tab of Delphi**
* **I installed Report Builder Pro to F:\NDAS-I\d7\RBuilder**
* **Possible projects to add to github (from 9/21/2023→10/23/2023→here):**
* **Primary**
  + **Filer\_Debugger**
* **Secondary**
  + **Advent? No.**
  + **Compare Folders. No.**
  + **DateCreatedToDateModified**
  + **EXIFAnalyzer**
  + **RenameAllOccurrences**
  + **Time Code Calculations**
  + **NFIMR- I didn’t have the report generator program (Report Builder Pro?) installed. I installed Report Builder Pro to F:\NDAS-I\d7\RBuilder. It would still take a lot of work to get NFIMR to work-- re-installing NFIMR components , etc. Furthermore, apparently the NFIMR organization still exists as part of ACOG.**
* **Put onto Github**
  + **usedunits**
  + **Sudoku**
  + **Four Letter Words**
  + **Browser**
  + **ADOBrowser**
  + **Jumble**
  + **BrowserTDBF**
  + **CopyProjectSources**
  + **MyFamilyTree**
  + **Photo DB**
  + **Distance-Calculator**
  + **ListBinaryDifferences**
  + **MediaCatalog**

**11/13/2023:**

* **I do not seem to have an Audionautix folder**

**11/14/2023:**

* **The KeyCodes report does not have column headings for all of the columns. Fixed.**

**11/16/2023:**

* ***Delete All Watches* does not work.**
* **Try to debug Version II**
  + **PRETTY.TEXT located on TESTED.VOL**
  + **STARTREK- No source code**
  + **Version 2- PASCALSYS**
    - **AbsIPC does not seem to be correct**
    - **$F4B8:3 is the correct WORD address- however- that is NOT where OpCodeDecoded is trying to fetch its data**
    - **When MemDumpDW gets called from DisplayWatches its value already seems bloated and ByteIndexed makes it worse**
* **The debugger should display which interpreter it is using**
* **Things have gotten very slow.** 
  + **Maybe related to something that has been installed recently? I uninstalled WonderShare - didn’t help**
* **Booting from: F:\NDAS-I\d7\Projects\pSystem\Volumes\Linux Vols\system.vol**
* **This is the Peter Miller interpreter which is *word* indexed.**
* **FetchUB calls FetchUB to get a byte from the address specified by IpcBase + IPC. IpcBase is the start of the procedure.**
* **AbsIPC is NOT the same as IPCBase. Changed today:**
  + **Changed INTERPC GetAbsIPC to reference IPCBase directly rather than using ByteIndexed- I need to verify that the WatchList is giving valid results.**
  + **I have disabled the ability to use OpCodesDecoded in InterpC**
  + **Fixed DeleteAllWatches**

**11/17/2023:**

* ***Load Version* should not be asking for the *Debug DB* to use. This should be part of the DEBUGGER.INI file.**
* **Need to call LoadSettingsForVersion**
* **The initial version number is coming from the BootParams**
* **Call sequence:**
  + **TfrmFiler.DebugClick**
    - **TFrmFiler.GetBootParams**
      * **TFrmLoadVersion.Create**
        + **TFrmLoadVersion.InitDropDowns**

**DebuggerSettings <- called BEFORE TDebuggerSettings has been created.**

**(Trying to get the DebuggerDatabasesFolder path which comes from the .INI file)**

**11/18/2023:**

* **The *Debugger Settings* form should contain *Reports Path* and the *Debugger Database* filename.**
* **It should not contain the list of possible debugger databases unless it is done by scanning the Debugger Databases Folder.**
* **The Databases List should be taken out of the debugger settings.**
* **I need to know what folder the databases are located in:** 
  + **leDebuggerDatabases**
* **The folder for the Databases cannot be retained in the DEBUGGER.INI. Where should it be kept? Root Folder\ACCDB? Can it be changed? No. Hard-wired to the root folder.**
* **What is CatalogDebuggerDatabases supposed to do?**
  + **It scans through the PCodeProcs table of each DB and lists info such as how many have pCode, how many have source code, segment names to *Filer Databases Report.csv***
* **DebuggerDatabasesFolder needs to be added to DebuggerSettings either as a CLASS function or a stand-alone function. Does this need to be changeable? No for now.**
* **Why am I searching SUB-folders to the ACCDB folder?**
* **What is the name of the root folder? gRootPathThe DatabaseList that is contained in DebuggerSettings contains information like the FilePath, VersionNumbers and TextBackupRootPath. Taking DataBaseInfo out of settings will lose all of this information.**
* **BackupDBToTextFiles only backs up a single set of DB files (.PAS, .PCode, .varlist) for a single version. These are taken from the database ([SourceCode], [DecodedPCode] and [ProcParameters]) fields.**
* **TextBackupRootPath needs to be calculated for each version. The Root will always be gRootPath + ‘\’ + ‘DB Contents’**
* **Folders will be named ‘V’ + VersionNrStrings[VersionNr].Name**
* **SaveMemosToFiles will now be passed the TextBackupRootPath rather than the DataBaseInfo.**
* **Removed *‘Debug DB to Use’*  from *LoadVersion.*  Replaced with *Debug Settings File to use.***
* **Do I also get rid of *Boot Volume FilePath* since this should be in the .INI file?**
* **Do I get rid of the ‘Prev, Next, Add, Delete’ buttons? Seems like this form is getting overloaded?**
* **Working on: BackupDBToTextFiles**

**11/20/2023:**

* **The BootInfo does NOT contain the filename- Get the filename of database to use from the DebugSettings**
* **Get the Debugger.ini file/path name from the TBootParams;**
* **LoadVersion: when the *Debug Settings File to use* is changed, should I immediately load the .INI file for temporary usage?**
  + **Yes. Let’s try that.**
* **Refer to DataBaseSettings**
* **LoadVersion: LoadSettingsForVersion(VersionNr:TVersionNr)**
* **LoadDebuggerSettingsFile loads the local variable fDebuggerSettings**
* **The BootParams must contain the name of the DEBUGGER.INI file**
* **fpCodesDatabaseFileNameS: TStringList**
* **Possibly duplicate and/or redundant forms;**
  + **TfrmDatabaseInfo**
  + **TfrmDebuggerDatabasesList**
  + **TfrmDebuggerSettings**
* **LoadSettingsForVersion is wrong- this should really be a part of TDataBaseInfo- This is now called TDatabaseSettings.LoadDebuggerSettingsForVersionNr**

**11/21/2023:**

* **Relevant source code:**
  + **DebuggerSettingsUnit**

| **Settings Class Name** | **Object Settings Variable** | **Object Settings File Name** | **Form Variable** |
| --- | --- | --- | --- |
| **TDatabaseSettings** | **DatabaseSettings** | **DataBaseSettingsFileName** | **frmDebuggerDatabasesList** |
| **TDebuggerSettings** | **DebuggerSettings** | **DebuggerSettingsFileName** |  |
|  |  |  |  |
|  |  |  |  |

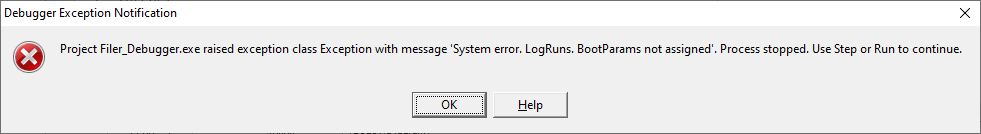
* **Relevant Variables**
  + **DebuggerDatabasesFolder**
* **Notes:** 
  + **Should the reports path be kept with the database settings of the debugging settings? Ans: DatabaseSettings may have their own reports path for reports that are strictly database related.**
  + **Should the debugger settings have a DebuggerDatabasesFolder variable? No.**
  + **FILER.INI- DebugDBToUse- property does not exist. This is a property in *RecentBootsList* - these should be referring to settings files: *SettingsFileToUse***
  + **What is the name of the DatabaseList settings file and where is it located?**
  + **DebuggerSettingsFile trying to LoadFromFile with VersionNr = vn\_Unknown**
    - **VersionNr is coming from the form (TfrmLoadVersion)**
    - **The settings files reference LastBootedVersionNr. This can be used to rename the files.**
    - **The settings files names have this format:** 
      * **Format('Debugger-%s.ini', [VersionNrStrings[VersionNr].Abbrev])**
    - **What is the root folder for debugger settings (.INI) files?**
      * **Ans: ‘F:\NDAS-I\d7\Projects\pSystem\DebuggerSettingsFiles’**
    - **Currently, this is where the version IV.12 settings would come from:**
      * **F:\NDAS-I\d7\Projects\pSystem\DebuggerSettingsFiles\Debugger-IV.12.ini**
    - **In *Load Version* changing the version number should reload the settings and set a default value for the *Debug Settings File to Use*.**

| **Version #** | **Name** | **Abbrev** | **INI Filename** |
| --- | --- | --- | --- |
| **vn\_Unknown** | **‘Unknown’** | **‘'Unk'** | **'Debugger-Unk.ini'** |
| **vn\_VersionI\_4** | **‘Version-I.4’** | **‘I.4’** | **'Debugger-I.4.ini'** |
| **vn\_VersionI\_5** | **‘Version-I.5’** | **'I.5'** | **'Debugger-I.5.ini'** |
| **vn\_VersionII** | **‘Version-II’** | **'II'** | **'Debugger-II.ini'** |
| **vn\_VersionIV** | **‘Version-IV.2.2’** | **'IV.2.2'** | **'Debugger-IV.2.2.ini'** |
| **vn\_VersionIV\_12** | **‘Version-IV.12’** | **'IV.12'** | **'Debugger-IV.12.ini'** |

* **See ‘F:\NDAS-I\d7\Projects\pSystem\DebuggerSettingsFiles\README.TXT’**
* **I need to be able to open/edit the Database settings.**

**11/22/2023:**

* **Why am I getting an ACCDB file for the *Debug Settings File to use*?**
  + **The name on the form is *edtSettingsFileToUse***
  + ***SetSettingsFileToUse* gets set twice. The second time is when it gets set to an ACCDB file.**
  + **This is getting set from BootParams *fSettingsFileToUse* and occurs in *SetRecentBootParams* which is called from *GetBootParams* and comes from *FilerSettings.RecentBootsList* which comes from *FILER.INI SettingsFileToUse***
* **Both *DebuggerSettings* and *DatabaseSettings* have a *fDataBaseList***
  + ***TDebuggerSettings* destroys its fDatabaseList when it gets destroyed.**

****

**EnableMenus(true, nil);**

**fSysRunning := false;**

**fCurrentBootParams := nil;**

* **Where does *fCurrentBootParams* get assigned?**
  + **It only gets changed in *EnableMenus***
  + **It should have gotten set when *EnableMenus* was called with *EnableMenus(false,...***
  + ***-***
  + **'No active databases were found for Version %s. Activate a DB for %s in the debugger settings.'**
  + **fDataBaseSettings.DataBaseList.Count = 0**
    - **Where is fDatabaseSettings stored?** 
      * **see: DataBaseSettingsFiles: string**
        + **Full path:**

**DataBaseSettingsFile + ‘DATABASE.INI’**

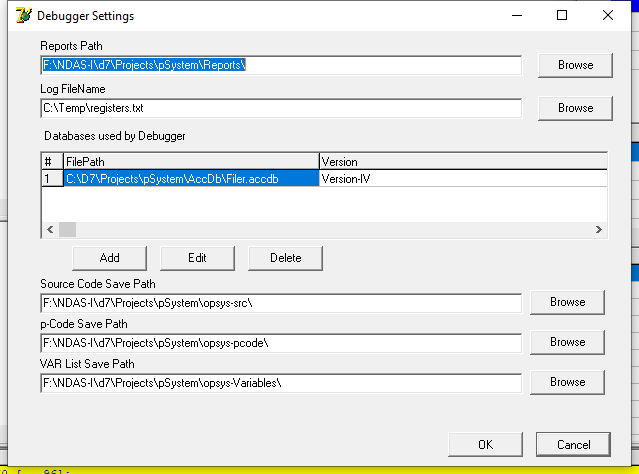
* + - * **see: TDataBaseSettings.GetDataBaseList: TDataBaseList**
      * **I don’t think that it is getting loaded.**
      * **When should it get loaded?**
        + **It should probably get loaded when the debugger is loaded.**
        + **It should probably be destroyed when the debugger is destroyed.**
        + **It should probably be a property of the debugger.**
    - **Does it contain anything? Not right now? Should probably contain the contents of**
    - **Is it getting loaded?**
    - **FilerMain wants to load the DebuggerSettings using *fDatabaseSettings.LoadDebuggerSettingsForVersionNr(result.VersionNr)***
      * **but *fDatabaseSettings* doesn't exist until the debugger is created**
      * **The debugger may have been created to *frmPCodeDebugger***
  + **Does *TfrmDebuggerDatabasesList* actually get called anywhere?**
    - **Yes. It gets called from the Debugger *File* menu via *Database Settings…***
  + **The *DatabaseSettings* currently belong to the debugger but the *DebuggerSettings* are global and free. They probably shouldn’t be. *DebuggerSettings* should belong to the debugger.**
  + ***frmDebuggerDatabasesList* is used to create a global *TfrmDebuggerDatabasesList* but it shouldn’t be global. It should be a property of the debugger.**

**11/23/2023:**

* **DatabaseSettings is a function defined as *TfrmPCodeDebugger.pCodeDebugger*.**
* **Is SelectedAccDbIndex the same thing as AccDbFileNumber? Sort of…**
* **Should *ConstructStringListForVersion* be defined in the debugger?**
* **What does *ConstructStringListForVersion* actually do?**
  + **It adds a string/object to *fpCodesDatabaseFileNameS* for each of the active databases that have a matching version number**
* **I have temporarily disabled usage of *ConstructStringListForVersion.***
* ***GetActiveDBName* is testing *IsActive* which is currently deprecated.**
* **Where is the DatabasefileName constructed?**
* **All of the interpreters want access to *DebuggerSettings.WatchList.WatchTypeFromWatchCode()*. Does this really need to be located in *DebuggerSettings*? Maybe because the WatchList is a part of the DebuggerSettings. But I don’t think that they really need to be methods that are exclusive to a TWatchList.**
* **The interpreters also want access to DebuggerSettings for the following:**
  + **DebuggerSettings.CallHistoryOnly**
  + **DebuggerSettings.Brks (OldDebugger when deciding whether to break or not)**
* **Does TfrmDebuggerSettings get used anywhere?**
* **referencing “DebuggerSettings” in the pCodeDebugger should cause them to be created.**
* **Where is the function *DebuggerDatabasesFolder* located?**
  + **Ans: It is a property of the TDebuggerSettings.**
  + **Should it be?**
    - **No. Probably not.**
  + **Who should it belong to?**
    - **Probably should be another property of the debugger.**
    - **It IS a property of the debugger: DatabaseSettings**
* **CatalogDebuggerDatabases is called from FilerMain. It should not be.**
* **Does DebuggerSettings.DebuggerDatabasesFolder exist? Yes.**
* **Why did I allow a menu option in FilerMain to edit the DebuggerSettings (only when $Debugging is defined)? I don’t know. I think that I will leave it there for now.**
* **How is the OldDebugger (in Interp\_Common) supposed to get access to DebuggerSettings?**

**11/24/2023:**

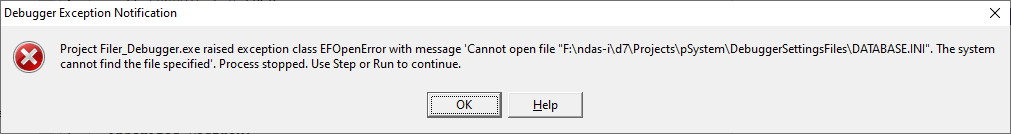
* **TfrmPCodeDebuggerCustom is defined in pCodeDebugger\_Decl**
* **It now contains**
* **Does DebuggerSettings even need a form?**
* **What am I trying to do?**
  + **I am trying to run an old version of File\_Debugger so that I can see what the Filer menu item to edit DebugSettings actually does.**
    - **The problem is that the *ovcintl* unit wants to compile *OvcFormatSettings.pas* which does not seem to exist.**
* **This is what the *Debugger Settings* looks like when executing the 4/13/2023 version of *Filer\_Debugger.exe* (located in *C:\D7\Projects\pSystem* on the *Surface Pro)*.**

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* **All of this really is Database stuff-- not debugger stuff.**
* **Why did I get rid of ActiveDBName in DebuggerSettings?**
* **The DatabaseSettings should remember what version a database file is for**
* **Should the debugger settings keep a list of databases and not which ones are currently active?**
* **DebuggerSettings may still be needed to keep track of potential databases and which version the settings are for.**
* **In TDatabaseInfo should there be a list of version numbers that it can be used with or just a single VersionNumber?**
* **What about *Source Code Save path*, *p-Code Save Path* and *VAR List Save path*? Should each DebuggerSettings file have its own values for each of these or are they global to the *DatabaseSettings*? For now, I am going to assume that they are not specific to each *DebuggerSettings* file.**
* **TDatabaseSettings.LoadDebuggerSettingsForVersionNr:**
  + **Wants to load DebuggerSettings- but these belong to TfrmPCodeDebuggerCustom**

**11/27/2023:**

* ***LoadDebuggerSettingsForVersionNr* is located in *TfrmPCodeDebuggerCustom.LoadDebuggerSettingsForVersionNr***
  + **How does *FilerMain* know where to find the debugger?**
  + **Ans: Get it from *frmPCodeDebugger ?***
* ***TfrmFiler.GetBootParams*: When *frmPCodeDebugger.LoadDebuggerSettingsForVersionNr* is called, *frmPCodeDebugger* does not yet exist**
* **Do I even need to load the DebuggerSettings this early since the debugger should create it? No. I don’t think so.**

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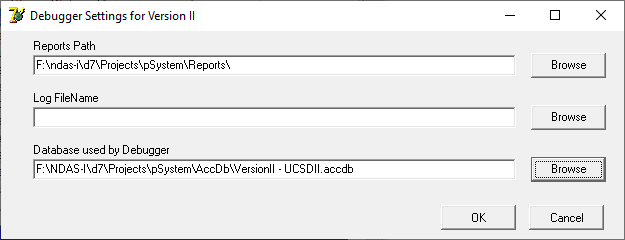
* **Where does TfrmCatalog get called?** 
  + **Does this belong in the debugger? Yes.**
* ***BackupDBToTextFiles-* where do the Text file names come from?**
* ***DebuggerDatabasesFolder* appears in both *TDataBaseSettings* and in *TDebuggerSettings ('F:\NDAS-I\d7\Projects\pSystem\AccDb\')*. Where should it be kept? Probably NOT in DebuggerSettings.**
* **Screen shots are located in file Debugger Dialogs.docx**
* **TfrmLoadVersion.DoOnFieldExit is calling LoadDebuggerSettingsFile - Why? And it is trying to load Debugger-I.4.ini. I don’t think this should still be happening. Is it?**
* **SelectedAccDbIndex should be coming from DebuggerSettings. Ok.**
* **Move fpCodesDatabaseFileNameS to TDatabaseList which is defined in DatabaseInfo.pas. OK.**
* **TDataBaseSettings→TDataBaseList**
* **Does DatabaseList.pCodesDatabaseFileNameS get freed? Yes. I think so.**
* **fDebuggerSettingsFileName is returning:** 
  + **'F:\ndas-i\d7\Projects\pSystem\DebuggerSettingsFiles\DATABASE.INIF:\ndas-i\d7\Projects\pSystem\DebuggerSettingsFiles\Debugger-II.ini'. Fixed, I think.**

**11/28/2023:**

* **FilerMain (calls) →** 
  + **DebugInterpreter →** 
    - **TFrmPCodeDebuggerxxx.Create**
    - **(and passes BootParams containing VersionNr)**
    - **(this sets TfrmPCodeDebuggerCustom.VersionNr )**
    - **DebuggerSettings gets loaded from 'F:\ndas-i\d7\Projects\pSystem\DebuggerSettingsFiles\Debugger-II.ini'**
      * **This has fLastBootedVersionNr = vn\_VersionII**
        + **Should this get set from the debugger VersionNr?**
      * **DebuggerSettings.DatabaseList.pCodesDatabaseFileNameS.Count = 0**
        + **Are the DebuggerSettings getting created when the form is being created?**
    - **The Database settings are created when the Debugger (form) is created**
    - **Should LastBootedVersionNr just be changed to VersionNr? Yes. I think so because each DbuggerSettings file should only be used for a single version.**
    - **Why is the TfrmDatabaseInfo doing ANYTHING related to VersionNr? I don’t think that it should be.**
      * **Because the form is being used both when editing one of the databases used for a single version and for editing the list of available databases accessible to the debugger overall. A new form has been created to handling the DatabaseInfo: TfrmDatabaseInfoGeneral**
    - **TfrmDebuggerSettings.EditDatabaseInfo(DatabaseInfo: TDataBaseInfo)**
    - **The Reports Path (currently in *Debugger Settings for Version xx*) ought to really be a database setting to a root folder for all versions.**
* **The DatabaseInfoGeneral need the following fields:**
  + **COL\_NR = 0;**
  + **COL\_ACTIVE = 1;**
  + **COL\_FILEPATH = 2;**
  + **COL\_VERSIONNR = 3;**
* **Leaving off at: TfrmDatabaseInfoGeneral.SetVersionNumbers**

**11/29/2023:**

* **Our presentation is probably saved in the file: *North Dakota Presentation.pptx***
  + **I copied to a DropBox folder called North Dakota Presentation**
  + **Office 2019 is on a DVD labeled *Office 2019***
  + **No. Actual presentation is saved on drive G: (DVD Backups)**
    - **G:\Location 34 - Hiking\[00957] NCT Presentation\North Dakota Hike and Presentation\North Dakota Presentation.odp**

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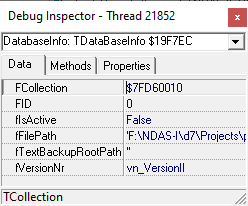
* **Browse button is looking for a .TXT FILE. Fixed.**
* **Should warn if file does not exist. Fixed**
* **TfrmDatabaseInfoGeneral should warn if file does not exists**
  + **OK button is not enabled**
* **DatabaseSetings should warn when the selected row of Known Databases is changed**

**11/30/2023:**

* **Load Verson - Debug settings file should default if it is empty and VersionNr is changed**
* **DebuggerSettings form Browse is looking for a .TXT file.**
* **debugger settings are not getting saved after editing**
* **DatabaseSettings Backup is not working- trying to use *DatabaseToUse***
  + **I’ve got to deprecate DataBaseList and replace it with DatabaseToUse**
  + **Allow it to exist as a *public* property**
* **See TfrmDebuggerSettings.btnOkClick**
* **I need a folder for log files**
* **Seems to be getting caught in an infinite loop in BackupDBToTextFiles. I don’t see a call to FindNext? Because it previously used DebuggerSettings.DataBaseList.Count which no longer exists. Should it really be using DatabaseSettings?**

**12/1/2023:**

* **fDatabaseList not getting freed?**
* **pCodesDatabaseFileNameS is 0**
  + **Is this because it was previously getting loaded from the DebuggerSettings file in DataBaseList?**
* **ReloadSegNamesProcnames never gets called**
* **gDebuggerSettings.fpCodesDatabaseFileNameS.Count = 1**
* **gDebuggerSettings.DatabaseList.pCodesDatabaseFileNameS.Count is what I really need to worry about**
* **Where is the DebuggerSettings.DatabaseList getting created?**
* **GetDataBaseList creates the list (if needed) and then sets fDataBaseList.Items[0]**

**immediately after the DatabaseList has been created**

* ***TfrmPCodeDebuggerCustom.fDebuggerSettings* is getting recreated?**
  + ***fDebuggerSettings* should ONLY exist in *TfrmPCodeDebuggerCustom***
    - **There is a local version in *LoadVersion***
    - **There is a local version in *DebuggerSettingsForm* but this is just a copy.**
* **Where do DebuggerSettings get destroyed?**
  + **TfrmLoadVersion.LoadDebuggerSettingsFile - this is a local copy**
  + **A new fDebuggerSettings file is created via a reference to TfrmPCodeDebuggerCustom.SetVersionNr but why does it not already exist?**
* **Lifetime of TDebuggerSettings**
  + **created: 'TfrmLoadVersion.LoadDebuggerSettingsFile'**
    - **destroyed: 'TfrmLoadVersion.LoadDebuggerSettingsFile'**
  + **created: 'TfrmLoadVersion.LoadDebuggerSettingsFile'**
  + **created again?: TfrmPCodeDebuggerCustom.DebuggerSettings**

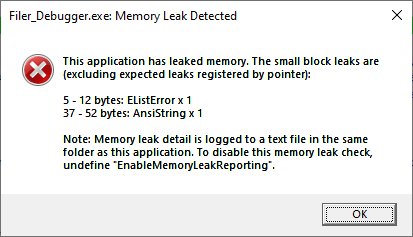
**12/4/2023:**

* **While the debugger is being created,** 
  + **it sets the version number**
  + **which tries to ConstructStringListForVersion**
  + **which creates XfDebuggerSettings**
* **Has DatabaseList been created?**
* **Collection error occurs when trying to load Database.ini**
* **XfDebuggerSettings belongs to the debugger**
* **fDatabaseSettings/DatabaseSettings belongs to the debugger**
* **Sequence:**
  + **Debugger is created**
  + **VersionNr is set**
    - **which create the *DebuggerSettings***
      * **Which creates *DebuggerSettings. fDatabaseList***
      * **Trouble occurs when the debugger.Create attempts to load the DataBaseSettings from the file ‘DATABASE.INI’**
      * **TDatabaseSettings also has a *fDatabaseList*. Is it getting created? No. It wasn’t. I now create it when the DatabaseSettings gets created.**
* **Now getting an AV in *SetAccDbFileNumber* - probably *fpCodesProcTableS* does not exist - that is true.**
* **When is pCodeProcTableS supposed to be created? It wasn’t being created. It is now created in (and local to) *TCustomPsystemInterpreter.***
* **Now getting “Invalid AccDb file #: %d”**
* **SegNamesInDB is empty**
* **IsActive = false? The DatabaseList only has one item and it is empty.**
* **Watch the breakpoint at TDebuggerSettings.GetDataBaseList**
  + **The DebuggerSettings.fDataBaseList has one (1) item but it is empty**
  + **gDebuggerSettings.fDatabaseList.pCodesDatabaseFileNameS.Count = 0**
  + **Where do things get added to gDebuggerSettings.fDatabaseList.pCodesDatabaseFileNameS?**
    - **Possibly ConstructStringListForVersion?**
  + **For some reason gDebuggerSettings.fDatabaseList.pCodesDatabaseFileNameS.Count = 0 after the load process?**
  + **On the first call, ConstructStringListForVersion has one (1) item, but it is an empty DatabaseInfo item.**
  + **By the third call GetDataBaseList has been populated:**
    - **($7FD5FEB0, 0, False, 'F:\NDAS-I\d7\Projects\pSystem\AccDb\Version-II.accdb', '', vn\_VersionII)**
  + **Fourth call DatabaseInfo is still OK**
  + **After booting, DatabaseInfo is empty again**
    - **($7FCE7150, 0, False, '', '', vn\_Unknown)**
      * **This is created TfrmPCodeDebuggerCustom.Create**
        + **which was called by the inherited Creates**
        + **which was call by the TfrmFiler.DebugInterpreter**
  + **Here is the sequence:**
    - **TfrmFiler.DebugInterpreter**
      * **TfrmPCodeDebuggerC.Create**
        + **TfrmPCodeDebuggerII.Creat**

**TfrmPCodeDebugger.Create**

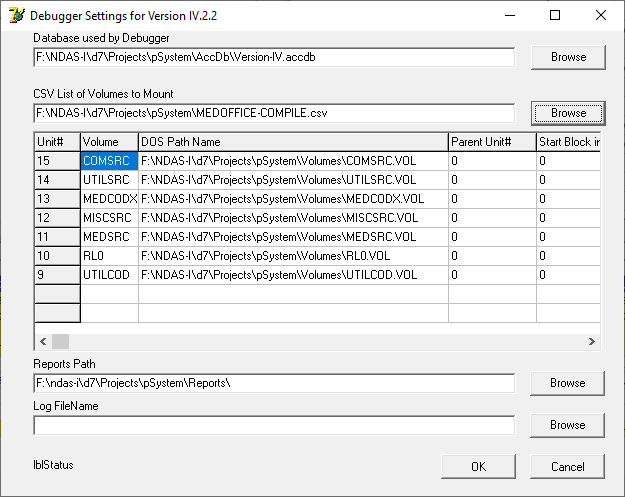
**TfrmPCodeDebuggerCustom.Create**

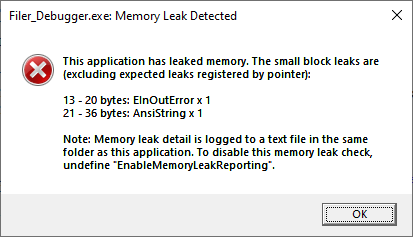
**TDatabaseList.ConstructStringListForVersion (which was call by SetVersion)**

* + **Changing the location of VersionNr := in TfrmPCodeDebuggerCustom.Create created a memory leak:**
  + ****
  + **related to TCollection.GetItem**

**12/5/2023:**

* **I want to have the ability to mount a list of volumes**
* **Message reminders:**
  + **WM\_USER is the base for messages**
  + **MSG\_SHOW\_NFIMR\_FORM = WM\_USER + 2;**
  + **procedure WMShowForm(var Message: TMessage); message MSG\_SHOW\_NFIMR\_FORM;**
  + **SendMessage((Owner as TForm).Handle, MSG\_SHOW\_NFIMR\_FORM, LongInt(fiHomeSID), 0); // 2/20/2007**
* **Testing Unmount / Mount volumes**
  + **Only volume mounted should be F:\NDAS-I\d7\Projects\pSystem\Volumes\PSYSTEMX.VOL**
  + **The .CSV file to use should be MEDOFFICE-COMPILE.csv**

****

* **Getting extra lines in the grid.**
* **Still leaking memory**
* ****

**12/6/2023:**

* **Load grid from Settings file**
* **Can I get rid of *DatabaseList* in *DEBUGGERSettings*? With difficulty since other parts of the program might be trying to use it.**
  + **I have (temporarily) removed DataBaseList from DEBUGGERSettings (and put it back)**
  + **Would need to move *pCodesDatabaseFileNameS* up to *DEBUGGERSettings***
  + **And likewise for *DATABASESettings* also**
* **Need to implement *Log FileName* (*LogFilePath*) on the *DebuggerSettings* form. Already being saved and restored.**
* **Time to implement opening the selected volumes when booting.**
* **Move ConstructStringListForVersion from DatabaseList to DEBUGGERSettings**
* **GetAccDbFileNumber needs to be moved up to DEBUGGERSettings**
* **What is fpCodesDatabaseFileNameS actually needed for? DatabaseToUse should be all that is necessary.**
* **SelectedAccDbIndex should also be irrelevant.**
* **Form SegmentProcName:**
  + **cbAccDbFileNumber changed to edtAccessFileName**
* **No longer needed: SegNamesInDB**
* **Removed:**
  + **from**
  + **from function**
  + **from function**
  + **from function**
  + **from**
  + **from**
  + **from**
  + **deleted**

| **Symbol Deleted** | **from where** |
| --- | --- |
| * + **TheAccDbFileNumber** | **THistoryItem** |
| * + **AccDbFileNumber** | **ProcNamesF** |
| * + **AccDbFileNumber** | **SegNamesF** |
| * + **aAccDbFileNumber** | **FetchProcInfo** |
| * + **AccDbNr** | **GetAccDbAndSegNameIdx** |
| * + **anAccDbFileNumber** | **AddHist** |
| * + **AccDbFileNumber** | **ProcNamesInDB** |
| * + **edtAccessFileName** | **BreakpointInfo** |
| **aAccDbFileNumber** | **FetchProcInfo** |
| **SegNamesInDB** | **is now TSegNamesList (TStringList)** |
| **SegNamesF** |  |
| **ProcNamesInDB** |  |
| **ProcNamesF** |  |
| **SegIdxFromName** |  |
| **LoadProcedureNames** |  |
| **GetAccDbAndSegNameIdx** | **This needs to be changed to**  **GetAccDbAndSegNameIdx(DS, aSegIdx) →**  **aSegIdx := TheSegNameIdx(DS)** |
| **ScanSegmentProcNames** |  |
| **FetchProcInfo** |  |
| **AddHist** |  |
| **OpenProc** |  |
| **UnseenProcIndex** |  |
| **ProcNameFromErec** |  |
| **Caller** |  |
| **TpCodesProcTable.Create** |  |
| **AddAltSegName** |  |
| **InAltSegNames** |  |
| **IsUnSeenProc** |  |
| **AddSeenProc** |  |
| **AccDbFileName** | **renamed to BreakPointDatabaseName** |

* **AccDbFileNumber was added to SegIdxFrom name 20201222**
* **Currently working on *FetchProcInfo* in *pCodeDebugger***

**12/7/2023:**

* ***fpCodesProcTableS* is no longer needed**
* **fpCodesProcTable can continue to exist**
* ***GetAccDbAndSegNameIdx* should be renamed to what(?)**
* **Where should be created?**
  + **Is is being created inside of TfrmPCodeDebugger.Create but this is a local copy. Changed it to reference to global fpCodesProcTable**
  + **By the time that TfrmPCodeDebugger.FetchProcInfo is called, *fpCodesProcTable* is nil.**
* **Currently the p-Code memo window of the debugger is not getting loaded**
* **12/8/2023:**
* **Make a list of unused procedures (not linked in by linker)**
* **iS BackupDBToTextFiles actually used anywhere?**
* **I found 246 occurrences of {000} (i.e., changes made re AccDb)**
* **CreateDebuggerDatabasesList does not seem to be use anywhere**

**12/9/2023:**

* **Menu: Utilities / SegNames / ProcNames - ‘%s’**
* **Menu: Utilities / Segnames / Verify does not work**
  + **Log should be going to** 
    - ***F:\NDAS-I\D7\PROJECTS\PSYSTEM\REPORTS\LOGFILE.LOG* but actually going to:**
    - ***F:\NDAS-I\D7\PROJECTS\PSYSTEM\REPORTS\LOGRUNS.TXT***
  + **What file object should the logfile be written to?**
    - **DEBUGGERSettings shows *F:\NDAS-I\d7\Projects\pSystem\LogFileName.txt* as the Log FileName**
    - **Filename appears to be *'F:\NDAS-I\d7\Projects\pSystem\LogFileName (Sat).txt'***
      * **Note that *Reports* does not appear in the name**
    - **Does the file ever get closed?**
    - **I do not see where it gets opened**
    - ***ErrorLine* which should be writing to it has the *WriteLn* commented out**
    - ***fErrorLogFile* is not open?**
    - **Leaking memory when I try to reload. Needed to *FreeAndNil(SegNamesInDB);***
* **ProcNamesInDB[aSegNameIdx, aProcNumber] seems to have truncated version of some procedure names**
* **TIVPsystemInterpreter.Fetch - Inc(DbgCnt) - // This really belongs down below**
* **I need to do a complete Visual Diff on pCodeDebugger**
* **I need to carefully inspect al references to *TheSegNameIdx***

**12/12/2023:**

* **I need to find an early version of TheSegNameIdx (original name unknown)**
  + **I need to find a version of *pCodeDebugger* older than 20210406**
  + **An old debugger is located in pr20201231**
* **I think that the function was called TheSegNameIdx which is exactly what I was assuming**
* **Compiler is not finding TfrmDebuggerSettings**
* **Working on *LoadFromUnit***
* **Whether debugging or not, having a list of files to mount would be useful.**
  + **The “*CSV List of Volumes to Mount*” should probably be kept in the *BootParams* rather than in the *DEBUGGERSettings* and passed in from the FILERSettings.**
* **Working on *GetBootParams* in *FilerMain-* need to move the code for *TfrmLoadVersion* down lower so that when TfrmVolumesToMount saves the *CSVListOfVolumesToMount* string to the *BootParams*.**

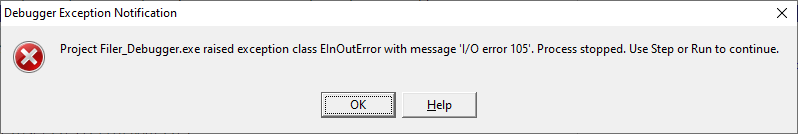
**12/13/2023:**

* **Trajectory:**

| **Form** | **Input/Output variable** |
| --- | --- |
| **TfrmVolumesToMount** | **CSVListOfVolumesToMount** |
| **TfrmLoadVersion** | **VolumesToMount** |
| **TfrmFiler** | **BootParams** |
| **BootParams** | **VolumesToMount** |

* **Do I still need to load the DEBUGGERSettings file in LoadVersion?**
* **BootParams.VolumesToMount could come from the list of currently mounted volumes- need to create a local csv file-**
* **CreateCSVFileFromMountedVolumes**

**12/14/2023:**

* **VolumesToUpdate should update the grid**
* **Not actually booting yet -- *MountListOfVolumes(TempBootParam.VolumesToMount)* does not use currently mounted volumes. Do I really need to dismount/remount volumes when I do? No. I don’t think so.**
* **FileExists(BootParams.SettingsFileToUse) isn’t doing anything. Deleted.**
* **Where does the debugger get created? It gets created in *DebugInterpreter*.**
* **The DEBUGGERSettings get loaded in *TfrmPCodeDebuggerCustom.Create***
* **How do I find out which debugger settings files were used for version I.5?** 
  + **Look at F:\NDAS-I\d7\Projects\pSystem\Volumes\V1-5**
* **LoadVersion is not setting the volume name properly (using full file path)**
* **BootParams List is not remembering all of the saved ones**
* **LoadVersion: *Debug Settings File* is not getting changed when trying to boot a version I.5 volume**
* **Clicking a version number calls *SetVersionNr***
  + ***SetVersionNr* writes to the property *SelectedVersionNr* which selects the clicked version. Is this necessary?**
  + **I want to have *SetVersionNr* change the .CSV file name if the version number has changed.**
  + **This should also change the “*Volumes to Mount*” file name *TfrmLoadVersion.VolumesToMount***
  + ***Version I.5* does not boot**
  + ***LoadVersion.lblVolumesToMount* should be yellow if the file does not exist**
  + ****
  + **DEBUGGERSettings.LogFilePath may be empty. It is.**

**12/14/2023:**

* **I want the default file name for “*CSV List of Volumes to Mount:”.***
* **I am getting a RCE when I run version I.4 (**Peter Miller- V1.5d)
* **I have a memory link that linked a bunch of stuff - maybe the debugger did not get freed.**
* **The debugger settings file for version I.4 is incorrect (F:\NDAS-I\d7\Projects\pSystem\DebuggerSettings\Debugger-I.4.ini)**

**object TDEBUGGERSettings**

**VersionNr = vn\_Unknown**

**ReportsPath = 'F:\ndas-i\d7\Projects\pSystem\Reports\'**

**LogFileName = 'F:\ndas-i\d7\Projects\pSystem\Reports\LogFile-Unk.TXT'**

**LastBootedUnitNr = 0**

**CallHistoryOnly = False**

**MaxHistoryItems = 50**

**BreakList.LogFileName = 'F:\ndas-i\d7\Projects\pSystem\Reports\LOGFILE.LOG'**

**BreakList = <>**

**WatchList = <>**

**WindowsList = <>**

**end**

* **Still have a problem with mis-matching volume names**
* **Where do the Database Names get calculated?**
  + **This is the format: *“F:\NDAS-I\d7\Projects\pSystem\AccDb\Version-I-4.accdb”***
* **LoadVersion is not setting the volume name properly (using full file path)**
  + **Coming from BootParams.VolumeName**
  + **Coming from *FILER.INI VolumeFileName -- but VolumeName* never gets saved**
  + **See: *TfrmFiler.MountVolume* -- but the volume is NOT mounted**
* **The BootParams list is losing stuff**
* **The ScrollBar on the debugger window is screwed up**
  + **How does the *TDATABASESettings.DatabaseList* get populated initially?**
    - **Ans: Using the *Add* button in *TfrmDebuggerDatabasesList.btnAddClick***
  + **What is it used for?**
    - **Ans: I don’t think that it is used for anything?**

**12/18/2023:**

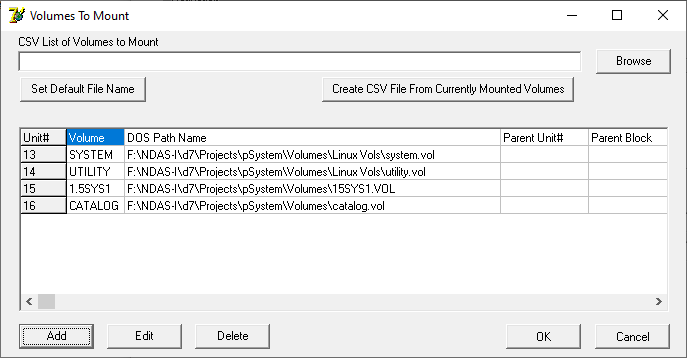
* **TfrmLoadVersion.btnOkClick never exits from UpdateRecentBootParams (stopped happening)**
* **Still not booting sometimes**
* **TVolume.DOSFileName is not set**
* **When the debugger is exited abnormally, the BootParams get lost-- I think**
* **Not mounting version I.5 properly sometimes**
* **When doing TNonStandardVolume.Create or TMiscVolume.Create(self, VolumeFileName), should the VersionNr be passed in? Maybe not.**
* **Sequence:**
  + **Debug 1.5 (boots OK) - halt, exit the debugger**
  + **Debug 4.12 (boots OK) - halt, exit the debugger**
  + **Debug 1.5 again (boots OK) - halt, exit the debugger**
  + **Debug 1.4 boots OK if the volume *UCSDI4.RAW* is already mounted.**

**12/19/2023:**

* **When I tried to have UCSDI4.RAW mounted in the LoadVersion code, it was not mounted as a non-standard volume. Cannot reproduce?**
* **Should the VersionNr be getting passed in?**
* **Taking another look at fTimerOpen. Where does it get set to false? Got rid of fTimerOpen and just checking fTimer = 0 : refuse to close and warn “HALT the system first” if it is not zero**
* **I got AV in InterpII fetch *aSegNameIdx := TheSegNameIdx(SegBase)* one time**
* **I got a range check error in Peter Miller version trying to boot version 1.5 (InterpC @ result := SegIdxFromSegTop(SEGP))**
* **RCE on *OldDebugger(TheBrkKind, CURPROC, RelIPC, BrkNo)* in *InterpC*. DbgCnt = 476. RelIpc = 53647.**
  + **This is occurring on an UJP. FetchUB is fetching a smallint which should be translated into a small negative number.**
  + **In UJP I changed:**
    - **w := jump(FetchUB()); to w := jump(ShortInt(FetchUB()));**
    - **PM Version 1.5 seems to be working**

**12/20/2023:**

* **VolumeName should be updated whenever VolumeFileName is changed**

****

* **Implement *Create CSV File From Currently Mounted Volumes***

**12/21/2023:**

* **CSVFilesToLoadFileName should be able to specify a default vale when not compiling with the debugger**
* **Got an odd address error (1 time) when trying to boot *F:\NDAS-I\d7\Projects\pSystem\Volumes\UCSDI5.VOL***
* **LOGRUNS.CSV isn’t getting updated. Yes. It is.**
* **What is *DUMPSYS.CSV*?**

**12/22/2023:**

* **look for “nice place for a breakpoint”**
* **Getting a RCE when I try to boot using *F:\NDAS-I\d7\Projects\pSystem\Volumes\PSYSTEMX.VOL* and mounting *F:\NDAS-I\d7\Projects\pSystem\DebuggerSettings\MEDOFFICE-COMPILE.csv***
* ***MountedUnitNr* is passed into MountVolume with garbage in it**
* **Try to use *HaltPSys***
  + **Defined in Interp\_Common**
* ***CancelTimer* is never called - I put back in the calling code**
  + **Defined in CRTWindow**
* **fTimer is defined in CRTWindow**
* **TVolumeInfo is defined in pSysVolumes**
* **Volumes have a VersionNr defined but it cannot be guaranteed to have been set.**
* **Where did I comment out some code?**
* **I need to figure out what the version number is when mounting by UnitNr.**
* **Old boot procedures**
  + ***BootInterpreter***
  + ***DebugInterpreter***
* **New procedures for booting from UnitNr**
  + ***BootFromUnitClick***
  + ***DebugFromUnitClick***
    - **Volumes are already mounted - do not need to be re-mounted**
* ***TfrmPCodeDebugger.Create* wants a *BootParams* parameter which is used when debugging to determine which version of ACCDB needs to be used and to calculate the DEBUGGERSettings file name.**
* **BootFromUnitNumber(UnitNr: integer; UseCInterp: boolean; VersionNr: TVersionNr);**
  + **Where can I get UseCInterp from?**
  + **Where can I get VersionNr from? It is not set in the TheVolume? I can select the default version number from a menu item.**
  + **pSystem halts immediately when I try to boot to the Medoffice system - I was attempting to boot a Version 4.12 system.**

**12/23/2023:**

* **DebugFromUnitClick is not implemented**
* **BootInterpreter -vs- DebugInterpreter**
* **Is *SettingsFileToUse* actually used? I think it is used in *LoadVersion* if it is not empty.**
* **“Halt the System First” is not working**
* **Trying to boot “ *F:\NDAS-I\d7\Projects\pSystem\Z80EM2010\UCSDI5.RAW”* leads to AV on**

**aSegNameIdx := TheSegNameIdx(SegBase); immediately! (DbgCnt = 0). The final error does not get logged. This only occurs when running the FILER.EXE version. It is assuming the existence of debugging information when running the non-debugging version.**

**12/26/2023:**

* **After Halting UCSDII0.RAW,II,Peter Miller gave a memory leak. May have occurred when trying to reuse debugger?**
  + **FilerMain Boot**
  + **Load Version Boot**
  + **p-Sys window Halt**
  + **FilerMain Boot**
  + **Load Version Boot**
  + **p-sys window Halt**
  + **-- getting hung in TfrmCrtWindow.Wait or losing memory**
    - **The pSysWindow is still open**
    - **TfrmFiler.GetThePSyswindow (ThePSysWindow property) is where the pSysWindow gets created-- it is never freed. Saved to fThePsysWindow.**
      * **called from LoadFromUnit**
  + **Where does version IV close the pSysWindow?**
    - **Version IV closes the pSysWindow when the filer destroys the interpreter and then the fThePsysWindow**
  + **Version II(pm) does the same thing.**
  + **When I halt the p-System (II(pm)), the p-Sys window is not destroyed.**
  + **Trying *FreeAndNil(fThePsysWindow)* in *BootInterpreter* did not correct the memory lean**
  + **See *F:\NDAS-I\d7\Projects\pSystem\Reports\BootParams.rtf***

**12/27/2023:**

* **This appears to be an interpreter which did not get freed. *InterpC* does not get destroyed until *Filer* is closed.**
* **I reinstated the *FreeAndNil(fInterpreter)* in *BootInterpreter***
* **pSysWindowClosing is only called by *InterpII* and *InterpC.* Occurs when the pSys window is manually closed. I Removed the OnClose override in InterpII and InterpC**
* **I sorted the RecentBootsList by VersionNr**

**12/28/2023:**

* **Here are the test programs: F:\NDAS-I\d7\Projects\pSystem\Z80EM2010\TEST.RAW**
* **Default CSV file name for version I.4 is incorrect- was only occurring if a VersionNr had not been selected**
* **Maintaining “Volumes to Mount” didn’t save it. If I do “Create CSV File from volumes Listed Below” it gets saved- Happens automatically now**
* **PM V1.5 (3) *GetWordAt* passed an ODD address; GetWordAt(13) - occurs during compile**
* ***Volumes to Mount*- need to ability to re-order**
* ***Volumes to Mount*- should include the *Boot Volume File Name***
* **Does Database Params ever get used? Yes. When creating a new database.**
* **Setting CSVListOfVolumesToMount loads the grid**
* **When the grid is saved, it is not saving the boot volume name**

**12/29/2023:**

**The first time that I ‘Add’ a row to the grid, it goes into Row 2;**

* **ReOrder the menus**
* **FilerMain p-System SetVersion menu should have a checkmark**
* **fTimerOpen is set when I try to quit version IV**