

Users Guide

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dbDOS PRO^{*}

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Welcome to dbDOSTM PRO 6

The new dbDOS[™] PRO 6 is 33% faster than before and has been optimized to make it the easiest way for developers and end-users to continue to use MS-DOS / DOS based programs on the latest and greatest Windows Operating System hardware and software. dbDOS[™] uses an advanced DOS Virtual Machine (VM) that enables the DOS-based application to run on the latest and greatest hardware and software just as they did on older DOS machines.

This is an incredible way for individuals and companies to save time and money. Now users of dbDOS[™] PRO 6 can run stand-alone or with network based programs. They can deploy their existing DOS-based dBASE applications on almost any hardware and Microsoft® Windows® Operating System (Vista, 2008, 7, 2012, 10, and 2016) 64-bit editions. This is done without changing any of the existing programs or applications.

dBase's dbDOSTM PRO 6 makes it incredibly easy to create Windows shortcuts that allow running of almost any DOS-based programs, and this allows access to data in a few simple mouse-clicks.

dbDOS[™] PRO 6 is the best life extenders for dBASE for DOS products on the market today. Simply move your programs and data to the new hardware, install dbDOS, run the dbDOS[™] Configuration Utility, and then double-click on the shortcut and the product(s) are up and running and ready to use.

The dbDOS[™] PRO 6 product supports both stand-alone and networking solutions for fast, easy to use an approach that saves time and money.



What's New in dbDOSTM PRO 6?

- □ (NEW) 33% base faster than prior releases!
- □ (NEW) Optimized Look & Feel additional speed increase (15%)
- □ (NEW) Sort features inside the Configuration Manager
- □ (NEW) Verify Close on Red X close
- □ (Updated) Look & Feel
- □ (Improved) dbDOSTM PRO 6 automatic configuration upgrades
- □ dbDOS PRO 6 general set of small issues resolved and most known bugs removed

More can be found on these exciting new features in the New Features in dbDOSTM 6 section in this User's Guide.



Installing dbDOSTM PRO 6

Installing dbDOS[™] is the same as installing any other Microsoft Windows program and uses a standard installation program to do the job.

Simply click the downloaded setup program located in the download directory, to start the installer.

If you are installing on Windows Vista or newer, the first question will be whether to run the installer. This is a condition of the Windows UAC (User Access Control) and is part of the Windows security system.

😗 User	r Account	Control					x
2		i want to allow es to this comp		ng pro	ogram	to make	
	18	Verified publisher:	dbDOS Pro 6 dBase, LLC. Hard drive on	this co	mputer		
🕑 si	how <u>d</u> etail	s			<u>Y</u> es	No	
			Change	when th	iese noti	fications app	<u>ear</u>

By clicking <u>Y</u>es to the UAC question, the installer will execute:



Press Next > button



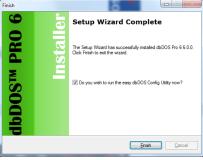
Accept the license and press Next > button

Ready to Install the Program The wizard is ready to begin instal	ation.	6
If you want to review or change as the wizard.	ry of your installation settings.	click Back. Click Cancel to exi
Current Settings:		
Destination Folder C:\Program Files (x86)\dBASE	\dbDOS Pro 6	
Disk Space Requirements 106,117K		

Review the install information and press Next > button to install.

stalling	
	g dbDOS Pro 6 gram features you selected are being installed.
ß	Please wait while the Setup Wizard installs dbDOS Pro 6. This may take several minutes.
	Copying new files: wizard mp4
	Gancel

Installation process



Press the Finish button and it will start the dbDOSTM PRO 6



Configuration Utility.

That is the complete install process. As stated above, the install finishes when the Finish button is clicked and that will kick off the dbDOS Configuration Utility, which you can learn about in the next section.



Activating dbDOSTM PRO 6

Once the installation is complete, the next step in running dbDOSTM PRO 6 is Activating the software on each computer it is installed. The process is the same regardless if you are using the software as a single user version or the networking version, except that dbDOSTM PRO 6 will need to be installed on **all network** nodes and activated on each node before it can be used.

It is recommended that YOU REGISTER THE PRODUCT FROM THE INSTALLER! This will ensure that that Windows® Operating System has the proper elevations for UAC (User Access Control) on Vista and higher OSs.



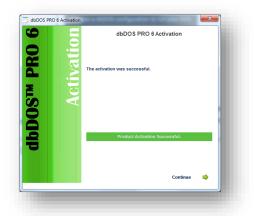
Click the Activate dbDOS™ PRO 6 link



Enter user License ID and your Password that was emailed to you.



Select the option that best fits your situation. Normally this will be to Activate dbDOSTM PRO 6 Online



The new dbDOS[™] PRO 6 EasyDOS is the quickest way to a configuration just three (3) steps.



Using the EASY DOS Feature

One of the exciting features of dbDOS PRO 6 is the EASY DOS configuration utility. This utility is designed to make creating a dbDOS configuration that runs a DOS application very simple and straightforward. No need to understand mounted drives, display types, etc., it is a straightforward approach. Now, to get this ease of use, dbDOS Configuration utility must make some assumptions about what is being created. Therefore, before you start to use the new EASY DOS feature, make sure the following is correct:

- All DOS based programs, applications, and data are located under a single directory
- Have a Windows 7 or above machine with a good processor and memory
- Be able to use the standard location/CodePage (95% of the customers) use 437

If those three things are true, then making a new Configuration is just three simple steps, as defined below:





Page one of the EASY DOS configuration creator

If you can answer the above question with a Yes, then press the Yes button to continue. If you need more help, click the help button, and if the answer is No then press the No button to exit the utility.

Note: A word about answering No to the question in the wizard. Just because you answer No to the first question does not mean you cannot use dbDOS, it just means that you have a more complicated setup and must use the standard dbDOS Configuration Utility. This feature is covered in the next section of the Users Guide.

After answering Yes to the question, the utility will take you to the second page. However, before you get to the second page, the utility will show you a directory / file list dialog:



Organize Vew folder			= - 2
 Local Disk (C:) \$Recycle.Bin AMD ASUS.000 ASUS.SYS Brother c5a4d3c4bb0f5959e2faa4d7fc41 Config.msi dBASE5 dBaseTest Documents and Settings DVDProjects dvmexp eclipse-java-luna-SR1a-win32-x86_64 	 Name CUA_SAM DTL SAMPLES SQLHOME BDLEXE DBASE.EX DBINFO.E DBSETUP. DCONVER DCONVER DCONVERS.EX DSPLIT.EX USPLIT.EX 	E E KE EXE T.EXE E XE	No preview available.
File <u>n</u> ame: DBASE.EXE			DS Programs (*.exe;*.co 🔻

Pick your Executable that will be run in the dbDOS environment

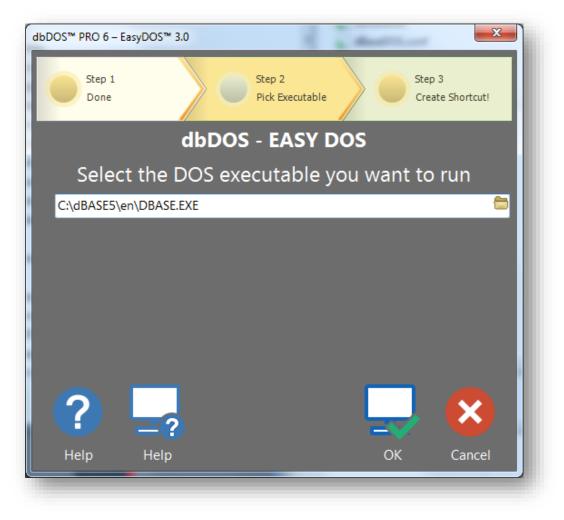
A few things to notice from the above dialog. Notice the dialog is pointing to the Computer > OS (C:) > dbase directory or in DOS terms: C:\dbase\>

Note: Keep in mind that your DOS applications do not need to be in C:\dbase\> directory. It can be located anywhere on the hard drive. So for instance if you had Word Perfect 5.1 for DOS loaded, it may be in c:\wp51\ so you would point to that directory... again, wherever the DOS applications, programs, and data are located on the hard drive.

Second, notice that only .exe(s) and .com(s) are being shown. The EASY DOS utility only recognizes those two DOS executable types. If you have a .bat file, you should use the full utility for creating a DOS configuration.

Once you select an executable (.exe or .com) and press the Open button, the following screen will appear:





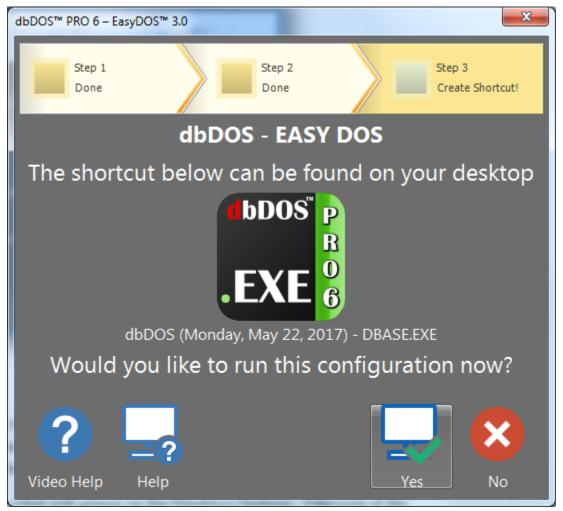
Showing the Selected file to create the configuration

Therefore, the configuration is created in this example is pointing to an executable located in *c:\dbase*\ directory. The DBASE.exe will be started when the dbDOS configuration is executed after the shortcut is created. Now, if everything looks good, press the OK button to continue. If you need more help, press the Help button or if you want to exit press the Cancel button.

Note: Notice the folder located on the right-hand side of the edit box. At any time, the user can click the folder image the Folder dialog will be shown again, where the user can reselect a new folder or executable.



The last page of the utility will appear:



Final Page of the wizard

The final page, as shown above, is straightforward if you want to run the application in dbDOS click the Yes button. If not, hit the No button and it will exit the utility and of course, you can always get Help by pressing the help button.

This page is designed to review what will appear on the Windows Desktop. Take note of the graphic that should be on the desktop with the name under it, as shown below:





Configuration created on Desktop and ready to use



Using dbDOS_Config.exe

One of the main features of dbDOS[™] PRO 6 is the dbDOS_Config.exe program. This program works the same on single user installs and networking installs. This program is responsible for configuring your dBASE programs to run in dbDOS and for creating the shortcuts that make using dbDOS so easy to use.

dbDOS[™] PRO 6, we enhanced the ability to pick the way the developer wants to create configurations. The new wizard gives a much simpler approach to creating the dBASE for DOS shortcuts for the latest Windows[®] operating systems.

Note: Shortcuts created with $dbDOS^{TM}$ 1.5.1 and above should automatically be updated to the latest standard, not action will be required from the end-user.

Starting the dbDOS_Config.exe interface has two main approaches, it will be started as the last step in the installing of dbDOSTM, or it can be started at any time using the *Start* | *All Apps* | *dbDOS Pro* 6 | *dbDOS Pro* 6 Config; as shown below:



	CCleaner	*	
	Code Counter Pro		
	CodeGear RAD Studio		mrozlog
	CodeGear RAD Studio 2007		
	CodeSite 5		Documents
	CodeSite 5.0		
	CollabNet Subversion Client		Pictures
	Corsair		
	Corsair Utility Engine		Music
	Creative		_
	CutePDF		Games
	dBASE CLASSIC	_	C
	dBASE PLUS		Computer
	dBASE PLUS 8		Control Panel
	dBASE PLUS 10		Control Panel
	dBASE PLUS 11		Devices and Printers
	dBaseApps		benees and rankers
	dbDOS		Default Programs
	dbDOS Pro 6		2
	📓 dbDOS Pro 6 Config		Help and Support
	🗾 dbDOS Pro 6 FAQ		
	🗃 dbDOS Pro 6 Advanced Config Vide		
	🗃 dbDOS Pro 6 Config Video Overview		
	🗾 dbDOS Pro 6 Easy Config		
	🔹 dbDOS Pro 6 Easy Dos Config Video		
	🛃 dbDOS Pro 6 Uninstall		
	🗾 dbDOS Pro 6 User's Guide		
	🗃 dbDOS Pro 6 Wizard Config Video		
	dbfUtilities		
	Defraggler		
	Devart UniDAC for RAD Studio 10		
	Devart UniDAC for RAD Studio 2007	÷	
┫	Back	_	
	Search programs and files 👂 🔎		Shut down 🕨

Using the Start All Apps | dbDOS Pro 6 | dbDOS Pro 6 Config



Initial dbDOS[™] PRO 6 – Configuration Manager

The updated dbDOS Configuration adds significant features to manage Windows® shortcuts for running dBASE for DOS applications. The focus with the dbDOSTM PRO 6 Configuration Manager was that end-users need to be able to manage the shortcuts, they wanted to be able to delete them, and they wanted a way to share them.

The new dbDOS_Config.exe interface will always show the initial start screen.

dbDOS™ PRO	6 - Configuration Manager		
	- >		@
New Config	Import Config Show Backups		User's Guide Help
Run Edit	Configuration Title		Config Export Del
€	dbDOS (Monday, May 22, 2017) - DBASE.EXE		De 🔁 🔁
€ ♦	Sample	Used with dbDOS PRO 6	😒 🛒 🕼
€	dbDOS (Monday, June 20, 2016) - DBASE.EXE		
5/22/2017 8:07:37	РМ		10 Configurations

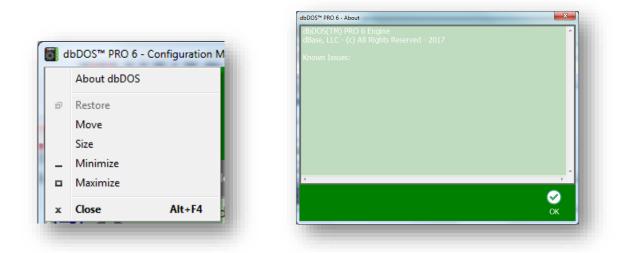
dbDOS Configuration Manager main screen



Screen Breakdown

dbDOS™ PRO 6 - Configuration Manager

Clicking the dbDOS icon gives the ability to get the About... window. The red 'x' is the standard way to close the dbDOS Config.



The Execution Bar – allows you to pick the operation you want to perform inside the dbDOS Config.



Bottom Toolbar

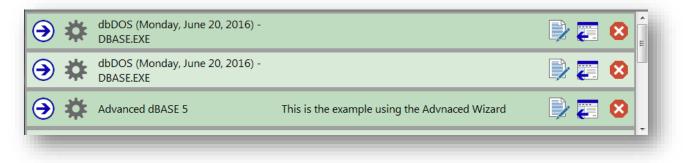
The Sort Toolbar – This allows the user to sort on Configuration Title or Description. The sort order only changes for that session and when restarted it will show in classic date order.



Sort Toolbar

The Shortcut browser – allows you to see all of the created shortcuts for your DOS programs. This is the area where you can manage those configurations.





This is the list of configurations created to be used by dbDOSTM

The execution bar has a number of buttons that can be activated to do certain operations as defined below:



The **New Configuration** button will create a new shortcut that will be placed on the Windows® desktop and can be placed inside the dbDOS folder off the Start menu.



The **Import Configuration** button allows the end-user to modify an existing configuration. This means that once a Windows® shortcut is created, it can now be updated, and can be deleted if needed.

When the Import Configuration button is pressed, the end-user can import a saved configuration. This will also allow you to then modify or customize that configuration to meet their needs on the system.



	the second se	
rganize 🔻 New folder		:= - 🗌 🔞
Favorites	- Name	Date mo
🧮 Desktop	UA_SAMP	5/25/201
🐌 Downloads	DTL 🔋	5/25/201
🖳 Recent Places	E SAMPLES	6/15/201
	SQLHOME	5/25/201 Select a file to
Desktop		preview.
🔁 Libraries		
Documents		
Dropbox Music		
Pictures		
F	▼	4
4 items		
File <u>n</u> ame:	•	dbDOS Configuration (*.dbDOS 💌
File name:		dbDOS Configuration (*.dbDOS

Import a configuration: it asks the location of the configuration to be imported



Press the **Show Backups** button to show all the backup configurations. This is NEW in dbDOS[™] PRO 6 and helps keep the configuration listing much more organized and easier to read.

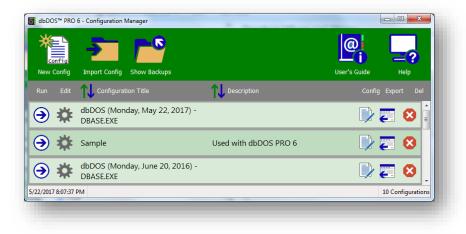


Press the User's Guide button to show the PDF version of this write-up from within the dbDOSTM Configuration manager.



Press the **Help icon** to watch the help video – Clicking this link will start the video that includes an overview of the dbDOS Config and how to use the dbDOS[™] PRO 6 interface.







The shortcut created on the Windows® desktop

After a Windows® shortcut is created

The above shows the outcome of running the dbDOS PRO 6 – Configuration Manager, it shows that a new Windows® shortcut was created and it now lists that shortcut in the Configuration Manager for better on-going support.

There are some additional Icons on the page that need to be defined.



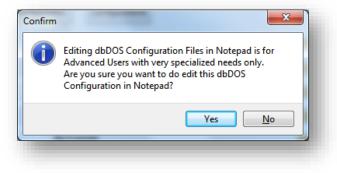
Pressing this icon will execute the shortcut



Pressing this icon will allow you to Edit the selected configuration.



[ADVANCED END-USERS] Pressing this icon will allow the end-user to edit the dbDOS[™] configuration file, this is for advanced end-users only. The program will display a warning making sure you do want to edit the configuration as below:





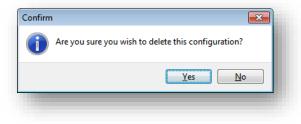
Pressing the Yes button will take you to the configuration file.



This icon represents the Export function, this will now allow you to export out a configuration and share it with other end-users



This icon represents the Delete function and anytime it is pressed a confirmation dialog will be displayed asking the end-user if they are sure they do want to delete the configuration:



Pressing the Yes button will Delete and pressing the No button will return the enduser back to the main screen.



New Configuration

When you start a new configuration, the first step will always be the Configuration Name and the Configuration Description, as shown below. The name and the Description are used so that the end-user can easily see which configuration they are working with.

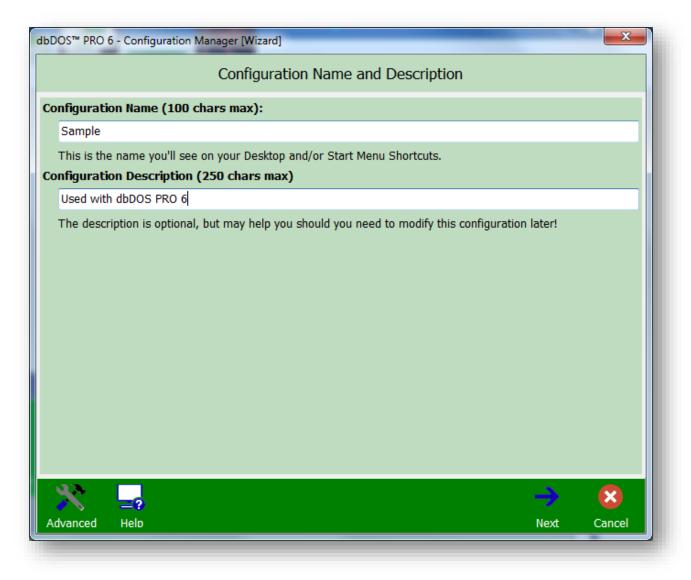
IbDOS [™] PRO 6 - Configuration Manager [Wizard]	×
Configuration Name and Description	
Configuration Name (100 chars max):	
This is the name you'll see on your Desktop and/or Start Menu Shortcuts. Configuration Description (250 chars max)	
The description is optional, but may help you should you need to modify this configuration later!	
	×
Advanced Help Next	Cancel

First Operation: Always have to define the name and description of the Configuration



Wizard Approach to building a dbDOS[™] Windows[®] shortcut:

Once the Name and Description of the dbDOS[™] configuration have been defined, pressing the Next button will start the dbDOS Configuration Wizard. Keep in mind that the Configuration Name will be the name of the shortcut created.



Name and Describe the new configuration

Notice above, that the naming and description fields are available for text, also notice that at the bottom of the dialog there are three (3) buttons. The first button to the left is called Advanced



this button will take you to the single-page configuration screen found in the



original dbDOSTM 1.0 product. If you want to learn more about the Advanced approach please go to the Advanced Approach to building a dbDOSTM Windows[®] shortcut section in this

document. After the Advanced button, you will see a Next button

Next, which will take

you to the first step in the Configuration Wizard and the Cancel button Cancel, which will take you back to the New Configuration screen.



Step 1: Mounted Drive Configuration:

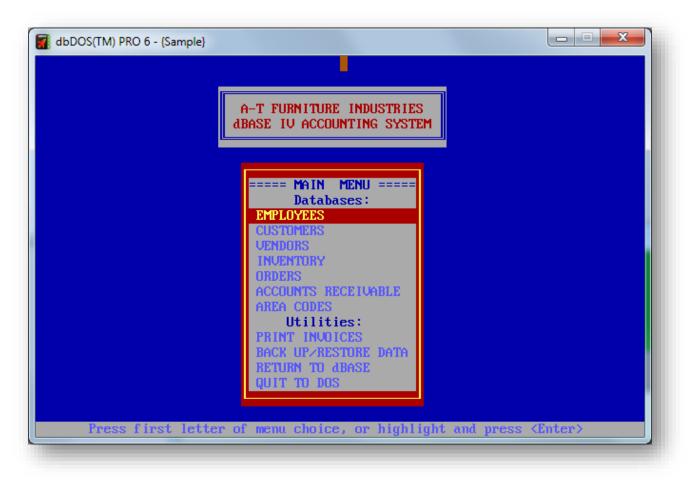
The next step in the wizard is the Mounted Drive Configuration as shown below:

DOS™ PRO 6 - Configuration Manager [Wizard]				×
Mounted Drive	e Configuration	i		
Mounted drive represents a single location on your loca rogram code, DBF files and indices reside. The default o our application, meaning it will be the location from who	drive is the mounte	d drive that will	l be used wi	
Drive Path				
Set Default Mounted Drive X Delete Mou	unted Drive	📔 Crea	te Mounted	Drive
Launch Options:				
Automatically Launch my program:				-DOC
				bDOS p B
aunch Values/Arguments:):> <mark>6</mark>
**		4	\rightarrow	X
Advanced Help		Back		Cancel
Auvaliceu lielb		DUCK		Cuncer

Configuration Type: This is where you choose an Executable or a Command-line Prompt

The above wizard page does many things. The main goal of this page is to define a configuration that calls a .BAT, .COM, or a .EXE file to be executed inside the dbDOS VM.





Running the dBASETM application in dbDOSTM PRO 6!



Or, the other option is to have a shortcut that takes the end-user to a command prompt:

CONVERT.EXE	DJOIN.EXE	DOCUMENT.GEN	DRIVERS.EXE	DSPL IT. EXE
DTL 1	FORM.GEN	FORMRUN.DBO	FX80_1.PR2	FX80_2.PR2
X80_3.PR2	GENERIC.PR2	GROUPS.EXE	IDEL IB.DBO	INV3.BAK
INV3.DBO	INV3.PRG	ISSUE66.PRG	LABEL . GEN	LABEL . PRF
DRIVERS.DBD	LOGIN.DB	MENU.GEN	PMINF032.EXE	PROJECT.CFG
U I CKAPP . GEN	QUICKT.PRG	QUICKTP.BAK	QUICKTP.DBO	QUICKTP.PRG
README	README . COM	REPORT.GEN	REPORT.PRF	RICKPRT.PRG
lckprt1.bak	RICKPRT1.DBO	RICKPRT1.PRG	RMINFO.EXE	[SAMPLES]
SHARE . EXE	[SQLHOME]	TEST.BAK	TEST.DBO	TEST.PDF
TEST.PRG	TEST.TXT	TEST2.BAK	TEST2.DBO	TEST2.PRG
MEMORY.BAK	TMEMORY.DBO	TMEMORY.PRG	TMP00061.\$DB	TMP03011.\$DB
MP04975.\$DB	TMP 05301.\$DB	TMP06532.\$DB	TMP15177.\$DB	TMP15792.\$DB
MP16611.\$DB	TMP21853.\$DB	TMP24131.\$DB	TMP25913.\$DB	TMP26470.\$DB
MP27452.\$DB		TMP35474.\$DB	TMP37722.\$DB	TMP40482.\$DB
MP41610.\$DB	TMP42171.SDB	TMP47462.\$DB	TMP47630.\$DB	TMP55447.\$DB
MP56326 . \$DB	TMP56631.\$DB	TMP59399.\$DB	TMP60638.\$DB	TMP66572.\$DB
MP69835.\$DB		TMP78461.\$DB	TMP80055.\$DB	TMP82505 . \$DB
MP82570.\$DB		TMP84580.\$DB	TMP85250.\$DB	TMP85975.\$DB
MP86724.\$DB		TMP91186.\$DB	TMP93353.\$DB	TST.PDF
T_BOX_PC.PRG		T_BOX_PR.BAK	T_BOX_PR.DBO	T_BOX_PR.PRG
INTITLED.CAT	UTILITY.ZIP			
	8,740,701			
6 Dir(s)	262,111,744	Bytes free.		
):N>				

Step 2: Create a mounted drive

Depending on the information you put into the wizard page, it will determine if the configuration will be pointing to a DOS program or creating a configuration that takes you to a command prompt.

Mounted drives within dbDOS[™] represent a location on either your local hard drive or a network-mapped drive. Creating a Mounted Drive in dbDOS is the process of making a storage device on the host system, such as a hard drive, CD-ROM, or even a network drive, usable on the dbDOS VM system. You do not need to make every drive on your host system available to dbDOS. As an example, Microsoft Windows 7 would be the host system, the C: drive on Windows 7 would be the storage device you want to mount in dbDOS in order to make it available to the Virtual DOS machine.

1. A Mounted drive represents a single location on your local machine or network where your dBASE executables, program code, DBF files, or indices reside.



prog	ram cod	ive represents a single location on your local machine or network where your dBASE executables, e, DBF files and indices reside. The default drive is the mounted drive that will be used when you run on, meaning it will be the location from where your program will be executed.
	Drive	Path
Se	t Defaul	Mounted Drive X Delete Mounted Drive

Clicking the Create Mounted Drive button will open the Path to Mount dialog:

Add Path to Mount	
Physical Path:	
Mounted Drive:	C 🔹 Make Default
	OK Cancel

Clicking the Folder icon 🗁 will open the Browser for Folder dialog as shown below:



ect the Directory containing your DOS Application(s)	Select the Directory containing your DOS Application(s)
Desktop Libraries Libraries Michael Rozlog Computer On Network Desktop Holder	Comm dataone dataone dase dase
OK Cancel	OK Cancel

The above dialog shows that the C:\dbaseold path has been chosen and when you click the OK button is clicked, the following will be displayed:

The next option the end-user is to choose the Drive letter to represent the Physical Path from within dbDOS, for the above example a Mounted Drive: of C has been set as the default drive within dbDOS. Then press the OK when complete.

C C:\dBaseTest\ D \\WDMYCLOUD\mrozdb5\	

The dbDOS[™] configuration now has defined a "C" drive in your dbDOS configuration and it points to the directory of C:\dBaseTest\. From this point, you can choose to have the configuration run an Executable, COM, Bat or other file or start at the Mounted C:\ drive Command Prompt.

	dbDOS PRO
Create Mounted Drive	Press this button to create a new Mounted Drive. You can have multiple Mounted drives in dbDOS, just as you can have multiple drives on your local hard drive.
	You can have up to 26 mounted drives and you can select exactly which drive letter (A-Z) that you want to use for each location.
X Delete Mounted Drive	Pressing this button will delete a Mounted Drive.
Set Default Mounted Drive	Press this button to set a Mounted Drive as default. The default Mounted drive will be the location that dbDOS is set to as soon as you run your configured dbDOS shortcut (similar to the way that C:\ is the default drive in Windows).
	The default drive is the mounted drive that will be used when you run your application, meaning it will be the location from

Any additional Mounted drives can be accessed within your dBASE DOS application (running in dbDOS) by using SET DIRECTORY TO "<mounted drive>" or by referencing the new Mounted drive when accessing files or folders under that directory in your code.

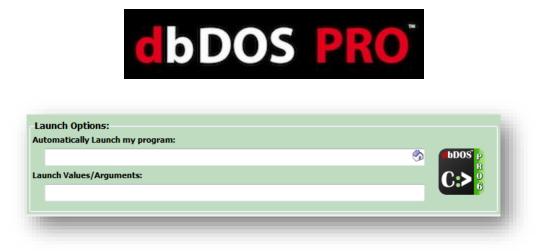
and indices must reside in.

Note: (e.x. do D:\filename.prg-- where D is the newly mounted drive and filename.prg is a program in that directory).

where your program will be executed and by default, the directory structure in which the application code, databases,

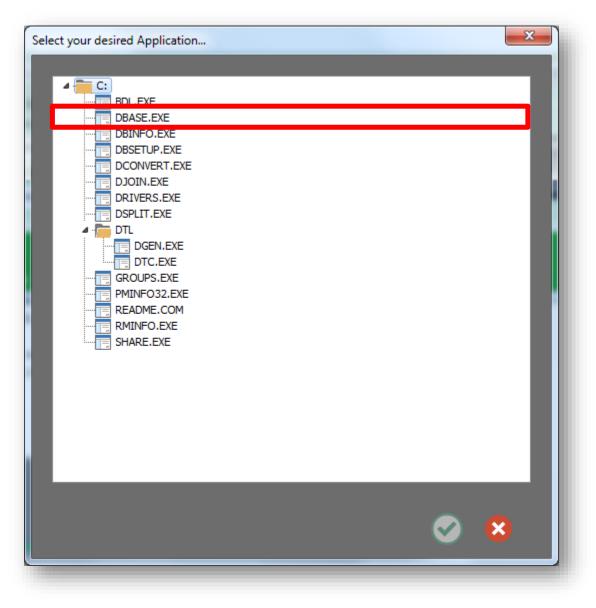
Creating an Executable configuration:

Once you have created a mounted drive, you can now set up the configuration to either run an Executable at startup or just go into a Command Line where you can then execute any exe or another runnable file by typing it in and hitting enter. In the following, the focus will be on generating a shortcut that runs an Executable at startup.



If you know the name of the program, you can type it into the Automatically Launch my program edit box. Alternatively, you can click the House \bigcirc icon and it will display the valid executables available in the Default Mounted Drive as shown below.





Select Application: this allows you to pick .bat, .com, or .exe

Now the only programs that will be displayed are the valid ones of .bat, .com, or .exe. Again, if you want to override this setting you can type anything into the edit box. Once you select the program, for this example *do.exe* (in older versions of dBASE the end-users used to rename dbase.exe to do.exe to make working with the dot-prompt easier), you can then press the **OK** button to continue. If you decide not to select an executable, they can click the **Cancel** button and it will return you to the prior dialog.



Launch Options: Automatically Launch my program:	
c:\dbase.exe	S 🚯
Launch Values/Arguments:	.EXE

Notice a couple of things about the above portion of the dialog. The Automatically Launch my program edit box now has c:\do.exe and that the Icon to the right has changed to represent an



EXE In addition, the Launch Values/Arguments: edit box is executable configuration. now editable.

This is where you can add any additional launch options that may be needed. For example, many people want the Windows® shortcut to load up an initial program on launch. Therefore, adding TMemory.prg to the Launch Values/Arguments will start dBASE for DOS and also load the TMemory.prg when the shortcut is executed:

aunch Options: tomatically Launch my program:		
c:\dbase.exe	🍪 🚯	2
unch Values/Arguments:	EVE	3
TMemory.prg		D.

Selected Application: Showing using the Launch Parameters



Here is the example of how this would execute using dBASE V for DOS calling the TMemory.prg as a Launch Parameter:

lriver 12	Search instal	Program led	Tools	Ontions	lindou	Lala			
2	instal	led G		-					
		104	-[•]		Comm	and —		-111	ĽЧ,
	urrent	memory c							
		: dBASE							
:tota	1 unuse	d memory							
									V
					-1				
					active)				
			l by dBA	SE UMM					
				hunk					
·· rary	est con	ciguous n	iemory c	JIUIIK			FOF	ν	
								Num	Ins
	5/22/1):tota):nemo):low):exte):virt):virt):phys):file):UMM	5/22/17):total unuse):memory comm):low DOS mem):extended me):virtual add):physical me):file buffer):UMM swap fi	5/22/17):total unused memory):memory committed to):low DOS memory avai):extended memory not):virtual address spac):physical memory used):file buffer cache):VMM swap file size	5/22/17):total unused memory):memory committed to):low DOS memory avai):extended memory not):virtual address space (0 if):physical memory used by dBA):file buffer cache):VMM swap file size	5/22/17):total unused memory):memory committed to):low DOS memory avai):extended memory not):virtual address space (0 if UMM not):physical memory used by dBASE VMM):file buffer cache	5/22/17):total unused memory):memory committed to):low DOS memory avai):extended memory not (0 if UMM not active)):virtual address space (0 if UMM not active)):physical memory used by dBASE UMM):file buffer cache):UMM swap file size	5/22/17):total unused memory):memory committed to):low DOS memory avai):extended memory not (0 if UMM not active)):physical memory used by dBASE UMM):file buffer cache):UMM swap file size	5/22/17 D:total unused memory D:memory committed to D:low DOS memory avai D:extended memory not Construction of the state of the s	5/22/17 D:total unused memory D:memory committed to D:low DOS memory avai D:extended memory not Construction of the size

Example: Running dBASE V for DOS using a Launch Parameter

When you are done setting both of the options, you can click the Next button to continue to the



next wizard page.



Creating a Command Prompt:

If you chose to create a configuration that simply starts a Command-prompt, it is very simple. Leave the 'Automatically Launch My Program' field blank then this dbDOS configuration will start in Command Window mode (with your default Mounted drive as the current directory).

DOS™ PRO	6 - Configuration N	lanager [Wizard]	×
		Mounted Drive Configuration	on
rogram cod	de, DBF files and in	single location on your local machine or ne ndices reside. The default drive is the mour ill be the location from where your program	nted drive that will be used when you run
Drive	Path		
a. 1 a. (X Delete Mounted Drive	RO Counts Mounted Dains
	It Mounted Drive		Create Mounted Drive
Launch Oj Automatica	ptions: ally Launch my prog	aram:	
	.,,		🚱 🚺 🚯 👘
Launch Valu	ues/Arguments:		C •> ⁸
			$\leftarrow \rightarrow \otimes$
<u> </u>			

Creating a Command-Line configuration



Notice in the above dialog, the icon to the right of the Launch Options, it represents the



Command-Line configuration.

When you are done setting the directory, you can

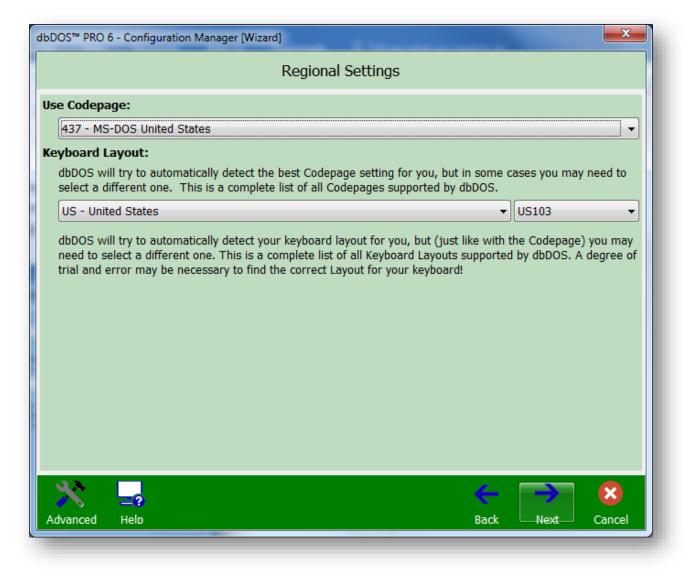


click the Next button to continue to the next wizard page.



Step 3: Regional Settings:

One of the advances in dbDOSTM PRO 6 is better support for internationalization. This means dbDOSTM PRO 6 will be able to better handle the keyboard layout, character set used, and the printer characters used. The following is the dialog that will be displayed:



Regional Settings: Base wizard displayed

In the above wizard page, the Use Codepages will only show the valid Codepages on the machine.



437 - MS-DOS United States	
437 - MS-DOS United States	
708 - Arabic (ASMO 708)	-
709 - Arabic (ASMO 449+, BCON V4)	E
710 - Arabic (Transparent Arabic)	
720 - Arabic (Transparent ASMO)	
737 - Greek (formerly 437G)	
775 - Baltic	
850 - MS-DOS Multilingual (Latin I)	-

Available Codepages on the current machine

Select the proper Codepage for your location. In this example 437 – MS-DOS United States is being used as the standard CodePage. Once that option has been selected, the Keyboard layout will be dictated from that selection. Only the valid Keyboard layouts will be displayed in the dropdown list box:

UK - United Kingdom	•
SF - Swiss (French)	
SG - Swiss (German)	
TM - Turkmenistan	
TR - Turkey	
UK - United Kingdom	
US - United States	
UX - United States (International)	
YU - Yugoslavia	*

Possible Keyboard layout countries under the Codepage

Normally you would pick US – United States, but let's say, for example, the only option picked was the UK – the United Kingdom. This will then cause only the proper keyboards supported by that Codepage as shown below:

UK 166		-
UK166		
UK168	 	

Pick the proper Keyboard support



NOTE: if you don't know which Codepage or Keyboard you are using, it is recommended that you use Codepage – 437, pick the US – the United States, and US103 for the keyboard.

When you are done selecting the Regional Settings, you can click the Next button to continue to



the next wizard page.



Step 4: Printer Settings:

Many advances have been made in the dbDOS[™] PRO 6 product around printing. The new printing interface allows you to change many more options than before. The following is the wizard page:

dbDOS™ PRO 6 - Configuration Manag	er [Wizard]	×					
Select your Printer Settings							
Printing System:							
[Legacy] This configuration	sends RAW print data directly to a	specified printer					
Your DOS Application(s) will communicate directly with your printer.							
[Legacy] This configuration uses "Interpreted Printing" and allows for Print Preview							
dbDOS will attempt to interpret your Application's print data, enabling you to preview your printouts before choosing whether to print them.							
This configuration uses "Enhanced Printing"							
dbDOS will interpret only the DOS Application's print output not directly interpreted by your printer.							
○ This configuration uses "Direct Printing"							
dbDOS will send all print data directly to the specified printer.							
Default Printer Options:							
This configuration uses a pre-defined Printer (with pre-defined Printer Settings)							
Brother HL-2270DW series							
General Printing Options:							
Printer Timeout:	Default Font:	Save to PDF					
5000	▲ Set Font	PDF Options					
(Default: 5000)							
4.3							
20							
Advanced Help		Back Next Cancel					

Printer Settings: Standard wizard page

Printing DOS based outputs have always been a challenge for dbDOS. Keep in mind that in many cases dbDOS is trying to print reports or output from 20 – 30 years ago on modern or new equipment (printers).

We now have five ways to print:



- **RAW (legacy)** output stream from the DOS program goes directly to the printer. This is a legacy feature, and it is recommended that if you are having issues with printing that you go to the new enhanced printing.
 - **NOTE: RAW** does not support the picking of a default printer.
- **Interpreted (legacy)** Output stream from DOS program is generated and sent to a text preview window. This output type is for legacy reasons; if you are having print issues, it is recommended that you move towards the Enhanced print option. There are many limitations with Interpreted printing.
 - NOTE: While Interpreted can be helpful with the print preview functionality, additional features to strip leading pages, convert lf (linefeed) to cr (carriage return) and picking the font are extra capabilities to help generate better output. The only 2 print drivers recommended for Interpreted include ASCII.pr2 and GENERIC.pr2 which are included in the dbDOS install process.
- Enhanced The best way to get printouts the way they used to print. This new feature uses a stripping process for the ASCII characters going into the print channel. The new functionality strips any text decorations related to DOS and applies the Windows text decorations, thus giving a more respectable output format.
 - **NOTE**: Enhanced print is recommended to use any of the FX80_1, 2, or 3.pr2 print drivers for the best results across multiple printer types, including HP.
- **Direct** The new RAW approach. This is a hybrid approach that takes the best features of the RAW approach and applies the Enhanced as well. This should be the first choice if the Enhanced print setting does not work.
 - NOTE: The Direct option needs to have a printer selected at the time of selection. This means the configuration will be limited to that default printer. When selecting the Direct option please select a printer in the default printer section or it will default to the first item in the list.



- **PDF** The new output to PDF. This option allows for both printing only to PDF or optionally printing to PDF and the selected Printer.
 - **NOTE**: PDF printing is only available in Enhanced and Interpreted print modes.

The long-term plan is that everybody will move towards the Enhanced approach. Both RAW and Interpreted will be supported for the foreseeable future, but in time we hope that they can be removed from the options set, thus making the printing options much easier to use and work with.



Pre-defined Printer settings

A few items to know about concerning setting a Default Printer. First, you cannot set a default printer for the RAW options. Interpreted and Enhanced can have a default printer set for each, and as noted above, the Direct print option REQUIRES you to pick a default printer when selecting that option.

rinter Timeout:	Default Font:	Save to PDF
5000		
(Default: 5000)	A Set Font	PDF Options

General Printing Options: set the timeout, Font, and PDF settings

The above is used to set the printer timeout. dbDOS is set to 5 seconds by default, but this setting can be tweaked by you as needed. Every 1000 represents 1 second of actual time.

The new Default Font allows the users to set the font for both the Enhanced and Interpreted print modes. The user is allowed to choose any font available to them; however, it is recommended that the user sticks with the following fonts:



iourier New Courier New Courier New Courier New Courier New Courier New Courier State Clephant	Regular Regular Italic Bold Bold Italic	10 10 11 12 14 16 18 20	OK Cancel
Effects Strikeout Underline Color:	Sample AaBbÁáÔ]	
Custom 👻	Sc <u>ri</u> pt: Central European	•	

- Courier (default) Regular (font style) and 10 (font size)
- Times Roman Regular, (font style) and 10 (font size)
- Helvetia Regular, (font style) and 10 (font size)

NOTE: The size of the font can drastically change the appearance of the printout. If you want to have ELITE (12 characters per inch) or CONDENSED (16.66 characters per inch) you may set the size here if these items are not set in the dBASE program. Again, these features give the end-user ultimate control of the output.



The last option is the Save to PDF; this is only available in either Enhanced or the legacy Interpreted print modes. The options for PDF are shown below:

dbDOS PRO - P	DF Output Op	otions	-	(selling per st	-	-		×
Default Outp	out Director	y:						
Also send	to printer?	•						
								ē
If a directo specified d		d, your printout	s will au	itomatically be	e saved	as PDF doc	ument	s inside said
Margins:			_	_				
Left:	0	Right:	0	_				
Top:	0	Bottom:	0					
If no defau for each pr Page Setup	intout.	specified, you	will be	prompted to s	elect a l	ocation and	l provid	de a file name
Page Siz	e: A4	→ Width:	8.3	in Height:	11.7	in Lines:	66	per page
Orientatio	on: Portrait	. •				Lines:	5.64	per inch
		PDF document, configuration.	your pr	intout will be	sent to t	he printer u	using tł	he Printing
								×
							Save	Cancel

PDF Output Options

The new PDF print system has many new features that many people will be very excited about and want to know the details. The first is the Default Output Directory. If an output directory is inserted, the PDF will automatically be printed to that directory **WITHOUT** any user interaction. If there is **NO** default output directory, the user will be asked each time to pick the location and name the PDF file. Keep in mind that the default name when a directory is used is the name of the configuration and a time and date stamp with the .pdf extension.

Remember that for PDF there is no printer. It is recommended that you select the proper size for your printing. dbDOS Config tries to help by giving the option for setting the page size (A4, Letter, Legal), Orientation (Portrait or Landscape), and setting the number of lines per page or

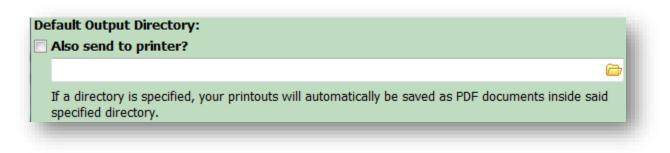
47 dbDOS[™] PRO 6 – © 2017 | dBase, LLC.



lines per inch. A custom size can be selected and the user can define the page size and structure.

NOTE: For U.S. Letter there are 60, 66, or 78 lines in PICA, ELITE, and CONDENSED respectably. There are 45 lines with printing Landscape with U.S. Letter paper for Pica.

The user can also set the margins for the paper, currently, the margins are set to 0.0.



Physical Print with PDF generation

In the above image, notice that you can select the "Also send to printer" option; this will send the output to the PDF generator and also to the physical printer!

NOTE: Please keep in mind that if this option is not set and output to PDF is selected that NO physical print will occur. You must select the "Also send to printer" option if you want a physical print, regardless if you have selected a default printer for the configuration.

After selecting your options, you can either Save or Cancel the operation. If you press the Cancel button all changes will be lost!

When you are done selecting the Printer Settings, you can click the Next button to continue to



the next wizard page.





Step 5: Display options:

dbDOS[™] PRO 6 offers many new optimizations in the Display Options dialog. This dialog will help you with various hardware settings to determine the best, most useful settings for the hardware when it comes to drawing the screen.

		Display	Options			
Rendering Engine	:					
• Use "DirectDray	w" rendering					
"DirectDraw" pro- graphics card.	duces smoother (and the fastest) re	endering for dbD	OS, but requires a	DirectX-co	mpatible
🗇 Use "OpenGL" r	endering					
"OpenGL" produc card.	es smoother (and	l faster) rendering) for dbDOS, but	requires an OpenG	L-compatib	le graphics
💿 Use "Overlay" r	endering					
"Overlay" is exact	tly the same as D	efault, but with ad	Ided support for	full-screen display.		
🔿 Use Basic rende	ering					
This display mod	e is compatible w	ith all computers I	but does not sup	port full-screen dis	play.	
Additional Option	s:					
Start in full-scr	een mode					
If checked, dbDO	S will run in full-s	creen (giving the	appearence that	the computer is a	ctually runn	ing DOS)
Resolution:						
original						-
Recommended re	solutions are suffix	ed with an asteris	((*)			
				←	\rightarrow	×
• • -•				-		

Display Options – this will help draw the screen in Windows and full-screen mode

Use "DirectDraw" rendering The first option is DirectDraw and it is the fastest screen display possible on Windows® based machines. This uses the Windows® DirectDraw® interface and increases the speed by about 15% on average. This is the default for new configurations. Note: DirectDraw only support 800x600



Use "OpenGL" rendering	The second option is OpenGL and ironically, it is the fastest on Nvidia cards, but it does require newer hardware because the processing is delegated to the Graphics Processor Unit (GPU) and it does support full-screen mode.
Use "Overlay" rendering	Overlay is slightly more optimized but still has good backward hardware compatibility. This is a little faster than the Basic drawing and this setting does support full-screen mode.
Use Basic rendering	Basic rendering is usually the most compatible with most hardware, however, Basic does not support full-screen mode on most hardware. This setting should be used when the other two (2) options do not work. (<i>Basic</i>) is the default

Additional Options:	
Start in full-screen mode	
If checked, dbDOS will run in full-screen (giving the	appearence that the computer is actually running DOS)
Resolution:	
original	
Recommended resolutions are suffixed with an asteris	k (*)

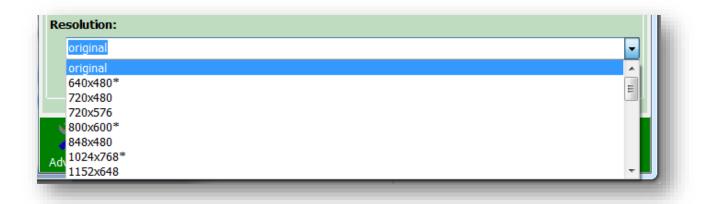
In the Additional Options section, it gives you two options if and only if the "Overlay" or the "OpenGL" options are picked. Only "Overlay" and "OpenGL" can set the configuration to start in full-screen mode. Select the Start in full-screen mode option and when the configuration is executed, the windows will be full-screen and the underlying Windows® desktop will not be seen.

Alt-Enter – will take the dbDOS window from Full-Screen to Windows screen. If it is in a windowed setting pressing the Alt-Enter will take it back to full screen. Hitting the Alt-Enter again will put it back into a windowed setting.

NOTE: Moving from full-screen mode to window, and window to full-screen mode may not always work with different graphics cards. This mode is supported but due to the differences in the way graphics cards work, the presentation may become unstable.



The second option besides full-screen is to pick the size of the screen you may want to use. dbDOS[™] PRO 6 reads your hardware and shows only the valid options that you may pick. The default size is 640x480; however, you can pick the size you would like to start in:



Note: Picking a size from the Resolution dropdown does not mean the screen will look good. This option scales the size of the screen to the size picked. Some sizes may look as good as the default and some may look much worse. This is a trial and error setting, and it depends on your hardware, screen size, and application being displayed.

Now it is also possible to manually enter a custom resolution for the best display. Keep in mind that the best resolutions are based on the 4:3 aspect ratio on a 25x80 screen. That means that a multiple of 320x200 will offer a better picture. Therefore setting a 960x600 would maintain that 4:3 ratio and give a fairly clean representation of the DOS screen. Also, keep in mind that if you use the advance display options for 43 or 50 lines, then the aspect ratio does change so the resolution picked may have to be based on that as well. Using at 43/50 lines, give an 800x600, or a multiple of that which would be 1600x1200 for a multiple in-between.

When you are done selecting the Display Options, you can click the Next button to continue to

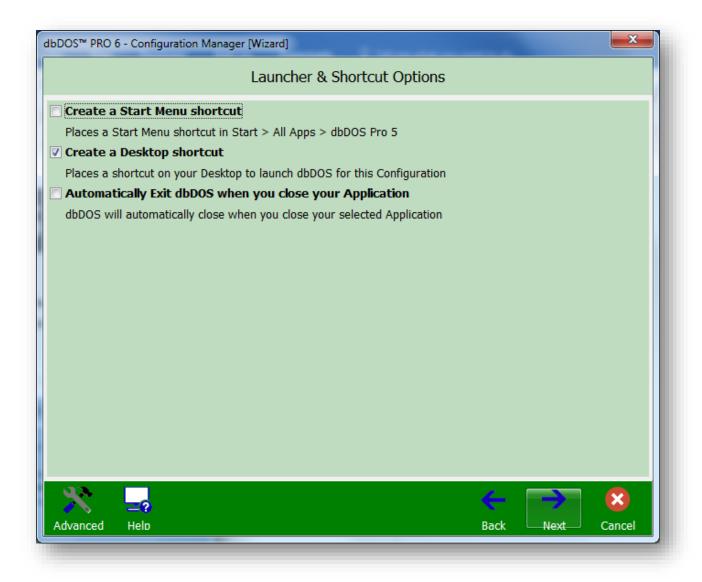


the next wizard page.



Step 6: Launcher & Shortcut Options:

These are additional options that can be set with the configuration to make the product run as desired. None of the following options are mandatory, but they can make your experience better.



Launcher & Shortcut Options: Pick the ones you think will give the best experience

Create a Start Menu shortcut	This option will add a shortcut to the Windows shortcut menu.
Create a Desktop shortcut	This option will add a shortcut to the Windows Desktop and is selected by default. You must de-select to remove this option.



Step 7: Test Configuration:

The Test Configuration option is just that, after you have set all the options for the configuration, the program now gives you an opportunity to test to see if you like it. Press the Test Configuration button and the configuration will execute.

C	BDOS™ PRO 6 - Configuration Manager [Wizard]
	Test Configuration
	Test Configuration
	You should now test your Configuration to ensure that it works properly. If your Configuration doesn't perform as it should, press "Back" to change any necessary options. If your Configuration does perform as it should, press "Finish" to save it and generate shortcuts.
	Advanced Help Back Finish

Test Configuration: Press the button to test

After you exit the test, if there was something you did not like, you can hit the back button until you reach the page containing the setting you wish to change. You can then make a change and



retest as needed. You can then make a change and retest as needed. If everything works as



defined, click the Finish button to complete the wizard.



Returns to the Main page:

After the wizard is complete, you will be taken back to the main page. On the main screen, you should see the new configuration you created in the prior wizard steps as shown below:

dbDOS ^{ter} PRO 6 - Configuration Manager	-		
config New Config Import Config Show Backups		L(j) —? User's Guide Help	
Run Edit 👥 Configuration Title	Description	Config Export Del	
Image: Barbon Stress		۽ 😒 🏹 🕼	
➔ ☆ Sample	Used with dbDOS PRO 6	🕞 📰 😣	DE
Image: Base of the second state of		ي 💭 💭	
22/2017 8:28:56 PM		10 Configurations	

The shortcut created on the Windows® desktop

Configuration Manager: Showing the new configuration added



Configuration Wizard Footer-bar explained:

The bottom button bar, called the Footer bar is where you control the process of the Configuration wizard.



This takes you to the single-page Advanced configuration manager. This button will be replaced with the Wizard button below when in the Advanced configuration manager.



This takes you to the Wizard configuration. This button will be replaced with the Advanced button above when in the Advanced configuration manager.



Clicking Help button will start the embedded how-to video on the wizard. This will open in the machines pre-defined media viewer, most likely a browser.



This button, if it is enabled, will take you back one step in the wizard.



This button, if it is enabled, will take you one step forward in the wizard



The Finish button will appear instead of the Next button on the final stage of the wizard. Pressing the Finished button will complete the wizard interface.



This button will return you back to the main screen, where you can create a new configuration, import a configuration, refresh a configuration, or exit the dbDOS Config program.



Advanced Approach to building a dbDOS[™] Windows[®] shortcut:

The dbDOS_Config.exe Advanced interface is a very straightforward and easy to use singlepage interface.

We added the wizard to help more novice end-users in a systematic fashion to create configurations.

However, if you understand the options and settings for a configuration, the advanced singlepage interface is very fast and as easy to use as the wizard. It also includes various additional items that can be set for greater flexibility and support. However, just like in the Wizard approach, the first page you will be shown is the Main configuration Manager page.

IbDOS™ PRO 6 - Configuration Manager [Wizard]	X
Configuration Name and Description	
Configuration Name (100 chars max):	
Sample	
This is the name you'll see on your Desktop and/or Start Menu Shortcuts. Configuration Description (250 chars max)	
Used with dbDOS PRO 6	
The description is optional, but may help you should you need to modify this configuration later!	
	×
Advanced Help Next	Cancel

First Operation: Always have to define the name and description of the Configuration



Configuration Manager Advanced

As stated above, all of the options are available on this single page. The following section of this guide reviews the available options, and how to configure them. The advanced manager is built for speed, not for aesthetics as the wizard is created and used. The advanced manager is base gray color and very little "eye-candy."

Sample Configuration Description (250 chars max)				
Used with dbDOS PRO 6				
Mounted Drives:				-
Drive Path				
* C C:\dBaseTest\ D \\WDMYCLOUD\mrozdb5\				
Set Default Mounted Drive	X Delete Mounted Drive	Create	Mounted I	Drive
Automatically Launch my program:				
c:\dbase.exe				S
Launch Values/Arguments:				
TMemory.prg				
Regional Settings:				
Use Codepage:				
437 - MS-DOS United States				•
Keyboard Layout:				
		Л		×

Configuration Manager [Advanced] – Single-page interface

There are four (4) sections to this interface and they include:

1. **Top panel** – it is responsible for picking the product you want to configure. It also is used to represent the shortcut icon on the desktop and an example of what the screen may look like. These things will change with the options selected.



- 2. **Configuration options and settings** These options are on a scroll pane so you can set all the needed options and settings on one single page. For a review of those options and settings go to the Configuration Settings and Options section below.
- Footer-bar This is where the four (4) basic options come into play. You can go to the wizard, Test Configuration, Save Configuration, or Cancel out of the configuration wizard.



Footer-bar – this is the button bar of options.

Configuration Settings and Options:

This is really the heart of the single-page interface. This allows you to set any of the options that are required to create a configuration for dbDOS[™] 1.5.

NOTE: If you used dbDOSTM 1.0 and created a configuration using that version, those configurations will not work in version 1.5 of dbDOS, dbDOS PRO 2 and dbDOS PRO 6. Please delete and recreate your configurations, as that will ensure proper execution of the dBASE for DOS products.

The following will break down each section of the Settings and Options:



Change Area 1: Configuration Details:

nfiguration Name (100 chars max):		
New config		
nfiguration Description (250 chars max)		
This is a new configuration		

Configuration Details – put in the name of the configuration and a description

The above section will be filled in by you on the first page of the Configuration Manager, where you are asked to input the Name of the configuration and the Description. However, it should be pointed out that you can change these values at any time on this screen.

Change Area 2: Mounted Drives

	Drive	Path	
*	C D	C:\dbase\ C:\dbase4\	
Set	t Default N	1ounted Drive	X Delete Mounted Drive

Mount Drives – Pick a Mounted Drive

Depending on the type of configuration you are creating, you will have one of two possible Wizards screens displayed.

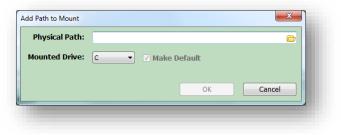
Mounted drives represent a location on either your local hard drive or a network-mapped drive. Creating a Mounted Drive in dbDOS is the process of making a storage device on the host system, such as a hard drive, CD-ROM, or even a network drive, usable on the dbDOS VM. You do not need to make every drive on your host system available to dbDOS. As an example, Microsoft Windows 7 would be the host system, the C: drive on Windows 7 would be the storage device you want to mount in dbDOS in order to make it available to the dbDOS VM for DOS.



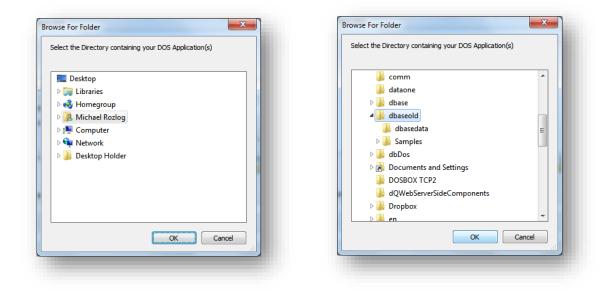
1. A Mounted drive represents a single location on your local machine or network where your dBASE executables, program code, DBF files, or indices reside.

Drive	Path			
10.6.10	Mounted Drive	V Delete I	Mounted Drive	Create Mounted Drive

Clicking the Create Mounted Drive button will open up the Add Path to Mount dialog:



Clicking the Folder icon icon will open the Browser for Folder dialog as shown below:





The above dialog shows that the C:\dbasegold path has been chosen and when you click OK, the following will be displayed:

ſ	Add Path to Mount	×
	Physical Path:	þ:\dBASE5\en
	Mounted Drive:	E Make Default
1		
		OK Cancel

The next option allows you to choose the Drive letter to represent the Physical Path within dbDOS, for the above example a Mounted Drive: of C is used to represent "c:\dbasegold'. Click OK when complete.

	Drive	Path		
F	С	C:\dbase\		
Set	Default M	punted Drive	X Delete Mounted Drive	Create Mounted Drive

The dbDOS[™] configuration now has defined a Mounted "C" drive which points to the directory of C:\dbaseold\. From this point, you can define if the configuration starts an Executable or start a Command Prompt.

Create Mounted Drive

Press this button to create a new Mounted Drive. You can have multiple Mounted drives in dbDOS, just as you can have multiple drives on your local hard drive.



You can have up to 26 mounted drives and you can select exactly which drive letter (A-Z) that you want to use for each location.

Pressing this button will delete a Mounted Drive.

Set Default Mounted Drive

💢 Delete Mounted Drive

Press this button to set a Mounted Drive as default. The default Mounted drive will be the location that dbDOS is set to as soon as you run your configured dbDOS shortcut (similar to the way that C:\ is the default drive in Windows).

> The default drive is the mounted drive that will be used when you run your application, meaning it will be the location from where your program will be executed and by default, the directory structure in which the application code, databases, and indices must reside in.

Any additional Mounted drives can be accessed within your dBASE DOS application (running in dbDOS) by using SET DIRECTORY TO "<mounted drive>" or by referencing the new Mounted drive when accessing files or folders under that directory in your code.

Note: (e.x. do D:\filename.prg-- where D is the newly mounted drive and filename.prg is a program in that directory).

Now proceed to the next section of the Create Mounted Drive dialog where you can define the type of configuration you want, either starting dbDOS with an Executable or just with a Command-Line type.



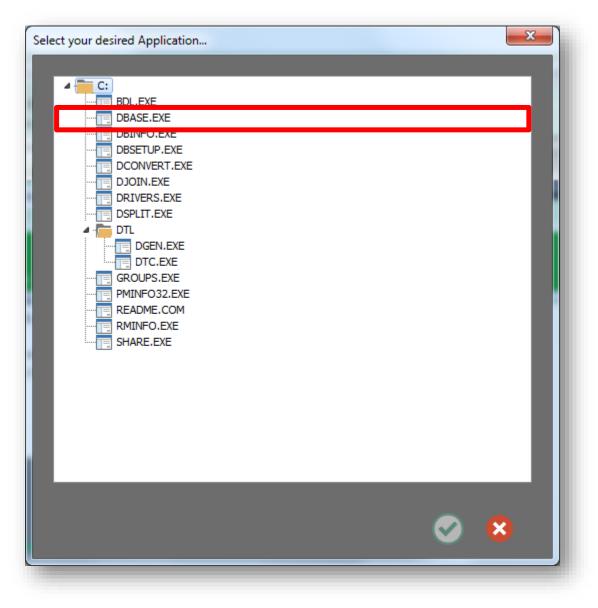
Creating an Executable configuration:

In the following, the focus will be on generating an Executable type.

	y program:	<u>//</u>
c:\dbase.exe		
aunch Values/Argumen	ts:	

If you know the name of the program, you can type it into the Automatically Launch my program edit box. Alternatively, you can click the House icon and it will display the valid executables available in the Default Mounted Drive as shown below.





Select Application: this allows you to pick .bat, .com, or .exe

Now the only programs that will be displayed are the valid ones of .bat, .com, or .exe. Again, if you want to override this setting you can type anything into the edit box. Once you select the program, for this example do.exe (in older versions of dBASE the end-users used to rename dbase.exe to do.exe to make working with the dot-prompt easier), you can then press the OK button to continue. If you decide not to select an executable, they can click the Cancel button and it will return you to the prior dialog.



		~
ts:		

Notice a couple of things about the above changed portion of the dialog. The Automatically Launch my program edit box now has c:\do.exe and that the Icon to the right has changed to



EXE In addition, the Launch Values/Arguments: represent an executable configuration. edit box is now editable.

This is where you can add any additional launch options that may be needed. For example, many people want the Windows® shortcut to load up an initial program on launch. Therefore, Adding TMemory.prg to the "Launch Values/Arguments" edit box will start dBASE for DOS (the do.exe program) and also load the TMemory.prg when the shortcut is executed:

omatically Launch my program:		
c:\dbase.exe	🌮 🥤	bDOS p
nch Values/Arguments:		
TMemory.prg	9	LAL <u>6</u>

Selected Application: Showing using the Launch Parameters



Here is the example of how this would execute using dBASE V for DOS calling the TMemory.prg as a Launch Parameter:

PRO 6 - {Samp	le}					Ŀ		x
			Options					
iver instal	led	-[•]		- Comm	and —		-(1)(רנז
u: Current	Memorali c	-						
total unuse	d memory							
		10 10		-1		0400		
				activeJ				
		ру арн	OF ALL					
		emory c	hunk			464	ĸ	
							Num	Ins
	it Search iver instal g: Current ASE version 22/17 total unuse memory comm low DOS men extended me virtual add physical me file buffer JMM swap fi	it Search Program iver installed y: Current memory c ASE version: dBASE 22/17 total unused memory memory committed to low DOS memory avai extended memory not virtual address spac physical memory used file buffer cache JTM swap file size	it Search Program Tools iver installed y: Current memory c ASE version: dBASE 22/17 total unused memory nemory committed to low DOS memory availer extended memory not virtual address space (O if physical memory used by dBA file buffer cache JTM swap file size	it Search Program Tools Options iver installed y: Current memory c ASE version: dBASE 22/17 total unused memory nemory committed to low DOS memory avai extended memory not virtual address space (O if UMM not physical memory used by dBASE UMM file buffer cache	it Search Program Tools Options Window iver installed g: Current memory c ASE version: dBASE 22/17 total unused memory memory committed to low DOS memory avai extended memory not virtual address space (O if UMM not active) physical memory used by dBASE UMM file buffer cache JMM swap file size	it Search Program Tools Options Window Help iver installed g: Current memory c ASE version: dBASE 22/17 total unused memory newory committed to low DOS memory availer extended memory not virtual address space (O if UMM not active) physical memory used by dBASE UMM file buffer cache JMM swap file size	it Search Program Tools Options Window Help iver installed g: Current memory c ASE version: dBASE 22/17 total unused memory memory committed to low DOS memory availer extended memory not virtual address space (0 if UMM not active) 8192 physical memory used by dBASE UMM 6584 file buffer cache 3008 JMM swap file size 8192	it Search Program Tools Options Window Help iver installed J: Current memory c ASE version: dBASE 22/17 total unused memory memory committed to low DOS memory availer extended memory not virtual address space (0 if UMM not active) Physical memory used by dBASE UMM file buffer cache 3008 K MM swap file size 8192 K

Example: Running dBASE V for DOS using a Launch Parameter



Creating a Command Prompt:

If you chose to create a Command-prompt configuration, it is very simple. If you leave, the 'Automatically Launch My Program' field blank then this dbDOS configuration will start in Command Window mode (with your default Mounted drive as the current directory).

dbDOS™ P	RO 6 - Configuration Manager [Advanced]	bDOS [®] P C:> ⁸ 6	100 m - 100 k			
Sample		Sample				
onfigurat	ion Description (250 chars max)					[
Used wit	th dbDOS PRO 6					
Mounted [Drives:					=
Drive	Path					
* C	C:\dBaseTest\					
D E	\\WDMYCLOUD\mrozdb5\ C:\dBASE5\en\					
Set Defa	ult Mounted Drive		X Delete Mounted Drive	Create	e Mounted	Drive
Launch O						
Automatica	ally Launch my program:					
						%
aunch Valu	ues/Arguments:					
Regional S	-					
lse Codep	-					
437 - MS	S-DOS United States					•
owboard I	Layout:					
Ceyboaru						
						×

Creating a Command-Line configuration

Notice in the above dialog, the icon to the right of the Launch Options, it represents the

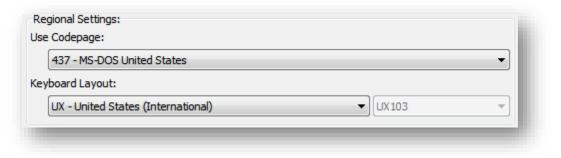


Command-Line configuration.



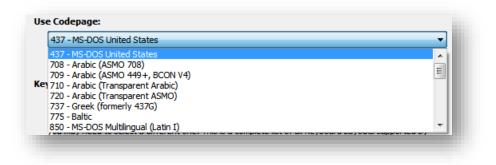
Change Area 3: Regional Settings:

One of the advances in dbDOSTM PRO 6 is better support for internationalization. This means dbDOSTM PRO 6 will be able to better handle the keyboard layout, character set used, and the printer characters used. The following is the dialog that will be displayed:



Regional Settings: Base wizard displayed

In the above area, the "Use Codepages" option will only show the valid Codepages on the machine.



Available Codepages on the current machine

Select the proper Codepage for the end-users location. In this example 437 – MS-DOS United States is being used as the standard CodePage. Once that option has been selected, the Keyboard layout will be dictated from that selection. Only the valid Keyboard layouts will be displayed in the dropdown list box:



UK - United Kingdom	-
SF - Swiss (French)	
SG - Swiss (German)	
TM - Turkmenistan	
TR - Turkey	
UK - United Kingdom	
US - United States	
UX - United States (International)	
YU - Yugoslavia	-

Possible Keyboard layout countries under the Codepage

As for this example, normally the end-user would pick US – United States, but in this example, the only option picked was the UK – the United Kingdom. This will then cause only the proper keyboards supported by that Codepage to be available, as shown below:

UK166	•
UK166	
UK168	

Pick the proper Keyboard support

NOTE: *if you don't know which Codepage or Keyboard you are using, it is recommended that you use Codepage – 437, pick the US – the United States, and US103 for the keyboard.*

When you are done selecting the Regional Settings, you can move down to the next areas of the single page interface.



Change Area 4: Printer Settings:

Many advances have been made in the dbDOSTM PRO 6 product around printing. The new printing interface allows you to decide many more options than before.

nter Settings:	- 13
Printing System:	
[Legacy] This configuration sends RAW print data directly to a specified printer	
[Legacy] This configuration uses "Interpreted Printing" and allows for Print Preview.	
This configuration uses "Enhanced Printing"	
This configuration uses "Direct Printing"	
Default Printer Options:	
This configuration uses a pre-defined Printer (with pre-defined Printer Settings)	
Brother HL-2270DW series	
rint Codepage (ADVANCED)	511
Use a non-default Codepage (default = 858 - Extended ASCII)	
858 - MS-DOS Multilingual + Euro	
eneral Printing Options:	211
imeout:	
5000	
efault Font:	
A Set Font	
Save to PDF	
PDF Options	

Printer Settings: Standard wizard page

NOTE: *In the single page interface, you may have to scroll down to see all of the options on the scroll pane. Click the scroll bar and pull down with the mouse.*

Printing DOS based outputs have always been a challenge for dbDOS. Keep in mind that in many cases dbDOS is trying to print reports or output from 20 – 30 years ago on modern or new equipment (printers).

We now have five ways to print:

• **RAW (legacy)** – output stream from the DOS program goes directly to the printer. This is a legacy feature, and it is recommended that if you are having issues with printing that you go to the new enhanced printing.



- NOTE: RAW does not support the picking of a default printer.
- **Interpreted (legacy)** Output stream from DOS program is generated and sent to a text preview window. This output type is for legacy reasons; if you are having print issues, it is recommended that you move towards the Enhanced print option. There are many limitations with Interpreted printing.
 - NOTE: While Interpreted can be helpful with the print preview functionality, additional features to strip leading pages, convert lf (linefeed) to cr (carriage return) and picking the font are extra capabilities to help generate better output. The only 2 print drivers recommended for Interpreted include ASCII.pr2 and GENERIC.pr2 which are included in the dbDOS install process.
- Enhanced The best way to get printouts the way they used to print. This new feature uses a stripping process for the ASCII characters going into the print channel. The new functionality strips any text decorations related to DOS and applies the Windows text decorations, thus give a more respectable output format.
 - **NOTE**: Enhanced print is recommended to use any of the FX80_1, 2, or 3.pr2 print drivers for the best results across multiple printer types, including HP.
- **Direct** The new RAW approach. This is a hybrid approach that takes the best features of the RAW approach and applies the Enhanced as well. This should be the first choice if the Enhanced print setting does not work.
 - NOTE: The Direct option needs to have a printer selected at the time of selection. This means the configuration will be limited to that default printer. When selecting the Direct option please select a printer in the default printer section or it will default to the first item in the list.
- **PDF** The new output to PDF. This option allows for both printing only to PDF or optionally printing to PDF and the selected Printer.
 - NOTE: PDF printing is only available in Enhanced and Interpreted print modes.



The long-term plan is that everybody will move towards the Enhanced approach. Both RAW and Interpreted will be supported for the foreseeable future, but in time we hope that they can be removed from the options set, thus making the printing options much easier to use and work with.

his configuration uses a pre-d	fined Printer (with pre-defined Printer Settings)
Brother HL-2270DW series	

Pre-defined Printer settings

A few items to know about concerning setting a Default Printer. First, you cannot set a default printer for the RAW options. Interpreted and Enhanced can have a default printer set for each, and as noted above, the Direct print option REQUIRES you to pick a default printer when selecting that option.

imeout:		
5000		
efault Font:		
	${f A}$ Set Font	
Save to PDF		
	PDF Options	

General Printing Options: set the timeout, Font, and PDF settings

The above is used to set the printer timeout. dbDOS is set to 5 seconds by default, but this setting can be tweaked by you as needed. Every 1000 represents 1 second of actual time.

The new Default Font allows the users to set the font for both the Enhanced and Interpreted print modes. The user is allowed to choose any font available to them; however, it is recommended that the user sticks with the following fonts:



iourier New Courier New Augl Mi Augl Mi Augl Mi Edwardian Josipe ITE Clephant	Regular Regular Italic Bold Bold Italic	10 10 11 12 14 16 18 20	OK Cancel
Effects Strikeout Underline Color:	Sample AaBbÁáÔ]	
Custom 👻	Sc <u>ri</u> pt: Central European	•	

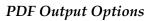
- Courier (default) Regular (font style) and 10 (font size)
- Times Roman Regular, (font style) and 10 (font size)
- Helvetia Regular, (font style) and 10 (font size)

NOTE: The size of the font can drastically change the appearance of the printout. If you want to have ELITE (12 characters per inch) or CONDENSED (16.66 characters per inch) you may set the size here if these items are not set in the dBASE program. Again, these features give the end-user ultimate control of the output.



The last option is the Save to PDF; this is only available in either Enhanced or the legacy Interpreted print modes. The options for PDF are shown below:

efault Outp	out Director	y:						
Also send	l to printer?							
								ē
If a directo specified d Margins:		d, your printouts	s will au	tomatically be	e saved	as PDF do	cument	s inside said
Left:	0	Right:	0					
for each pr	It directory is rintout.	Bottom: specified, you v	-	prompted to s	elect a l	ocation ar	d provi	de a file name
If no defau for each pr Page Setup Page Siz	lt directory is rintout. : ze: A4	specified, you v	will be p	prompted to s in Height:		in Lines :	66	per page
If no defau for each pr Page Setup Page Siz	It directory is rintout.	specified, you v	will be p			in Lines :		per page
If no defau for each pr Page Setup Page Siz Orientatio As well as	It directory is rintout. 22: A4 pon: Portrait	specified, you v	will be p	in Heiqht:	11.7	ⁱⁿ Lines: Lines:	66 5.64	per page per inch
If no defau for each pr Page Setup Page Siz Orientatio As well as	It directory is rintout. 22: A4 pon: Portrait	width:	will be p	in Heiqht:	11.7	ⁱⁿ Lines: Lines:	66 5.64	per page per inch



The new PDF print system has many new features that many people will be very excited about and want to know the details. The first is the Default Output Directory. If an output directory is inserted, the PDF will automatically be printed to that directory **WITHOUT** any user interaction. If there is **NO** default output directory, the user will be asked each time to pick the location and name the PDF file. Keep in mind that the default name when a directory is used is the name of the configuration and a time and date stamp with the .pdf extension.

Remember that for PDF there is no printer. It is recommended that you select the proper size for your printing. dbDOS Config tries to help by giving the option for setting the page size (A4, Letter, Legal), Orientation (Portrait or Landscape), and setting the number of lines per page or lines per inch. A custom size can be selected and the user can define the page size and structure.



NOTE: For U.S. Letter there are 60, 66, or 78 lines in PICA, ELITE, and CONDENSED respectably. There are 45 lines with printing Landscape with U.S. Letter paper for Pica.

The user can also set the margins for the paper, currently, the margins are set to 0.0.

Also send to printer? As well as producing a PDF document, your printout will be sent to the printer using the Printing System specified in this configuration.

Physical Print with PDF generation

In the above image, notice that you can select the "Also send to printer" option; this will send the output to the PDF generator and also to the physical printer!

NOTE: Please keep in mind that if this option is not set and output to PDF is selected that NO physical print will occur. You must select the "Also send to printer" option if you want a physical print, regardless if you have selected a default printer for the configuration.

After selecting your options, you can either Save or Cancel the operation. If you press the Cancel button all changes will be lost!



Change Area 5: Display Options:

The dbDOS[™] PRO 6 offers a new optimization called display options. This optimization will help you on various hardware settings to figure out the best, most useful settings for that hardware when it comes to drawing the screen.

Display Options	
Rendering Engine:	
Ose "DirectDraw" rendering	
Use "OpenGL" rendering	
O Use "Overlay" rendering	
🗇 Use Basic rendering	
Additional Options:	
Start in full-screen mode	
Resolution:	
original	•
Scaler:	
	-

Display Options – this will help draw the screen in Windows and also full-screen mode

Use "DirectDraw" rendering	The first option is DirectDraw and it is the fastest screen display possible on Windows® based machines. This uses the Windows® DirectDraw® interface and increases the speed by about 15% on average. This is the default for new configurations. This feature only supports 800x600 screen size.
Use "OpenGL" rendering	The last option is OpenGL and ironically, it is the fastest and most supported, but it does require newer hardware because the processing is delegated to the Graphics Processor Unit (GPU) and it does support full-screen mode.
	This is also, where you can set if the configuration should start in full-screen mode. Click the Start in full-screen mode and when the configuration is executed the windows will be full-screen and the underlying Windows® desktop will not be seen.
Use "Overlay" rendering	Overlay is slightly more optimized but still has good backward hardware compatibility. This is a little faster than the Surface drawing and this setting does support full-screen mode.
Use "Basic" rendering	Basic is usually the most compatible with most hardware,



however, Basic does not support full-screen mode on most hardware. This setting should be used when the other two (2) options do not work.

Additional Options: Start in full-screen mode		ł.
Resolution:		
original	-	

In the Additional Options section, it gives you two options if and only if the "Overlay" or the "OpenGL" options are picked. If and only if "Overlay" and "OpenGL" can set the configuration to start in full-screen mode. Select the Start in full-screen mode option and when the configuration has executed the windows will be full-screen and the underlying Windows® desktop will not be seen.

Alt-Enter – will take the dbDOS window from Full-Screen to Windows screen. If it is in a windowed setting pressing the Alt-Enter will take it back to full screen. Hitting the Alt-Enter again will put it back into a windowed setting.

NOTE: Moving from full-screen mode to window and window to full-screen mode may not always work with different graphics cards. This mode is supported but due to the differences in the way graphics cards work, the presentation may become unstable.

The second option besides full-screen is the resolution of the screen you may want to use. dbDOS[™] PRO 6 reads your hardware and shows only the valid options that you may pick. The default size is 640x480; however, you can pick the size you would like to start in:

priginal	-
100x300	
12x384	- 1
640x400	
40x480	Ξ
00x600	-
l024x768	-
L280x600	
1280x720	-

Note: Picking a size from the Resolution dropdown does not mean the screen will look good. This option scales the size of the screen to the size picked. Some sizes may look



as good as the default and some may look much worse. This is a trial and error setting, and it depends on your hardware, screen size, and application being displayed.

Now it is also possible to manually enter a custom resolution for the best display. Keep in mind that the best resolutions are based on the 4:3 aspect ratio on a 25x80 screen. That means that a multiple of 320x200 will offer a better picture. Therefore setting a 960x600 would maintain that 4:3 ratio and give a fairly clean representation of the DOS screen. Also, keep in mind that if you use the advance display options for 43 or 50 lines then the aspect ratio does change so the resolution picked may have to be based on that as well. Using 43/50 lines gives an 800x600 or a multiple of that which would be 1600x1200 for a multiple in-between.

Change Area 6: CPU Options:

In dbDOSTM PRO 6 we have added settings for CPU Options, to allow users to customize the instruction set used by the CPU to maximize performance. This new exposure reduces the need for a 3rd Party Memory Management product to be included, which drastically reduces hardware conflicts and better memory management.



Change Area 7: Autoexec (Customization)

In dbDOS[™] PRO 6 there is a new option on the Advanced Wizard (ONLY) that allows for customization of the Autoexec section of the configuration. The Autoexec section is what controls the DOS programs being called and allows for additional batch processing. This along with 4DOS integration gives a strong and powerful combination that allows for easier customization and adds more power to the support for DOS products.

To overwrite or customize the Autoexec section, the user must be in the Advanced Wizard and click the **Custom Autoexec Section option**. Once selected it will unlock the editor and customization can begin. All updates will be saved to the Configuration when the wizard is completed.



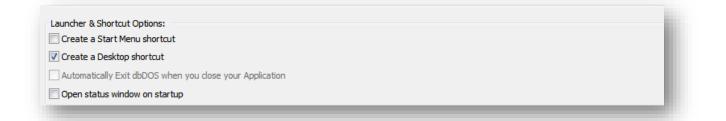
Autoexec Options: Custom Autoexec Section keyb US103 437 Z: mount B "D: \Dropbox (dBase, LLC.)\dbDOS\dbDOS PRO 4\Engine\4DOS"

٠

This gives you the ability to change the Autoexec area of a configuration

Change Area 8: Launcher & Shortcut Options:

These are additional options that can be set with the configuration to make the product run as desired. None of the following options are mandatory, but they can make the experience better for you.



Launcher & Shortcut Options: Pick the ones you think will give the best experience

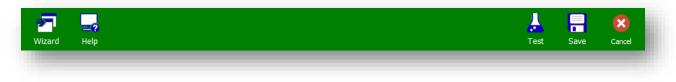
Create a Start Menu shortcut	This option will add a shortcut to the Windows shortcut menu.
Create a Desktop shortcut	This option will add a shortcut to the Windows Desktop and is selected by default. You must de-select to remove this option.
Automatically Exit dbDOS when you close your Application	When an application is executed and then closed if this option is not selected it will return to a command-prompt. If you want to close the command prompt, clicking the red ' x ' or type in the exit at the prompt and hitting return will close the session.
Open status window on startup	When this option is selected, an additional status window will be opened. This window displays additional information from the dbDOS TM VM. This is primarily used for advanced



debugging purposes.

Change Area 7: Footer-bar

The bottom toolbar is the location where you can complete the single interface configuration manager.



Footer-bar: All the options for completing a configuration

Now to explain what each button on the footer bar does:



This takes you to the Wizard configuration. This button will be replaced with the Advanced button above when in the Advanced configuration manager.



Clicking Help button will start the embedded how-to video on the wizard. This will open in the machines pre-defined media viewer, most likely a browser.



The Test Configuration option is just that, after you have set all the options for the configuration, the program now gives you an opportunity to test to see if you like it. Press the Test Configuration button and the configuration will execute.

After you exit the test, if there was something you did not like, you can change the settings, then retest if needed. If everything works as defined, click the Save Configuration to complete the task.



The Save Configuration button allows you to Save the configuration settings at any point. Pressing the Save Configuration button will complete the interface.



This button will return you back to the main screen, where you can create a new configuration, import a configuration, refresh a configuration, or exit the dbDOS Config program.



Conf		Import Config Show Backups		User's Guide	Help
Run	Edit	Configuration Title	Description	↑↓ Config	j Export Del
•	¢	dbDOS (Monday, June 20, 2016) - DBASE.EXE			2 😣
€	¢	dbDOS (Monday, June 20, 2016) - DBASE.EXE		D.	2
€	¢	Advanced dBASE 5	This is the example using the Advnaced Wizard		2 😣
22/2017 12	2:43:19	PM Th	is is the example using the Advnaced Wizard		8 Configuration

Returns to the Main page:

After the wizard is complete, the wizard will take you back to the main page. On the main screen, you should see the new configuration you created in the prior wizard steps as shown below:



Updated after creating a configuration using the Single Page approach

The shortcut created on the Windows® desktop



Running dBASE DOS after the dbDOS Configuration Utility (dbDOS_Config.exe)

Once the dbDOS[™] Configuration Utility has been completed, you should now see icons on your Windows desktop. There can be four different icons for dbDOS:



This icon represents the dbDOSTM product (without any configuration settings). Used internally in the dbDOSTM VM.



This icon represents the specific configured programs' commandprompt. It is found on the Windows® desktop and menu shortcuts and will be used to start a dbDOSTM session. Double-clicking on the icon from the Windows® desktop will start the program's command prompt. From there you can execute various DOS commands.



Example: You have configured $dbDOS^{TM}$ to work with dBASEVDOS. Double-clicking this will take you to {drive}:\> (which is actually pointing to the root folder of the dBASE V DOS program) if you execute a DIR command the directory contents are shown; if you type in dbase.exe the dBASE program will execute.

PMINF032.EXE	PROJECT.CFG	QUICKAPP.GEN	QUICKT.PRG	QUICKTP.BAK
QUICKTP.DBO	QUICKTP.PRG	README	README . COM	REPORT.GEN
REPORT . PRF	RICKPRT.PRG	RICKPRT1.BAK	RICKPRT1.DBO	RICKPRT1.PRG
RMINFO.EXE	ESAMPLES 1	SHARE . EXE	[SQLHOME]	TEST.BAK
TEST.DBO	TEST.PDF	TEST.PRG	TEST.TXT	TEST2.BAK
TEST2.DBO	TEST2.PRG	THEMORY . BAK	TMEMORY.DBO	TMEMORY . PRG
TMP00061.\$DB	TMP03011.SDB	TMP03179.\$DB	TMP04975.\$DB	TMP05301.5DB
TMP06532.\$DB	THPOBO60.SDB	TMP15177.\$DB	TMP15792.\$DB	TMP16611.\$DB
TMP17156.\$DB	TMP21853.\$DB	TMP24131.\$DB	TMP25913.\$DB	TMP26470.\$DB
TMP27452.\$DB	TMP28290.\$DB	TMP33329.\$DB	TMP35474.\$DB	TMP37722.\$DB
TMP39308 . \$DB	TMP40482.\$DB	TMP40708.SDB	TMP41610.\$DB	TMP42171.\$DB
TMP45070.\$DB	TMP47462.\$DB	TMP47630.\$DB	TMP49289.\$DB	TMP52015.\$DB
TMP52490.\$DB	TMP52718.\$DB	TMP55447.\$DB	TMP56326.\$DB	TMP56631.\$DB
TMP59040.\$DB	TMP59399.\$DB	TMP60638.\$DB	TMP62215.\$DB	TMP66493.\$DB
TMP66572.\$DB	TMP67893 . \$DB	TMP68222 . \$DB	TMP69819.\$DB	TMP69835.\$DB
TMP72850.\$DB	TMP74041.\$DB	TMP78461.\$DB	TMP80055.\$DB	TMP81262.\$DB
TMP82505 . \$DB	TMP82570.\$DB	TMP84475.\$DB	TMP84580.\$DB	TMP84860.\$DB
TMP85250.\$DB	TMP85975 .\$DB	TMP86319.\$DB	TMP86724.\$DB	TMP87145.\$DB
TMP87229.\$DB	TMP91186.\$DB	TMP93353.\$DB	TMP 96448.\$DB	TST.PDF
T_BOX_PC.PRG		T_BOX_PR.BAK	T_BOX_PR.DBO	T_BOX_PR.PRG
UNTITLED.CAT	UTILITY.ZIP			
151 File(s)	25,517,957			
6 Dir(s)	262,111,744	Bytes free.		
C:\>				
			-	





This icon is used to represent a specific executable program configured to run inside the dbDOS[™] VM. This will usually have a name under the icon on the desktop or on the start menu, which describes what program will be executed when selected.

For Example:



double-click – executes:





This icon represents the dbDOS[™] Configuration Utility, by doubleclicking on this icon, the dbDOS[™] Configuration Utility will be executed and run. Once in the configuration utility, you can make additional shortcuts to other programs, those programs will be assigned one of the above icons depending on if you are starting from a DOS prompt or executing a program.

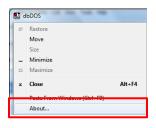


This program allows building a configuration in 3 steps.





This is the image that is displayed when starting a dbDOS[™] PRO 6 configuration on a machine. It is only on the screen for less than a second. The program cannot be run alone it must be executed from the shortcut that is created.



The About... the menu item is available on the system menu of the dbDOS window. Clicking the menu item will show you the about box, with information about the release.

Note: Please watch the video on configuring dbDOS, this will answer many of the questions and show you exactly how the program works and can be configured.



Networking features of dbDOSTM 6

These are exciting new features found in dbDOSTM PRO 6, plus you can find other unique features of dbDOS in the <u>Additional Features for dbDOSTM</u> section.

New Native file system and network support combined for the dbDOS[™] Engine

In dbDOSTM PRO 6 the underlying file system used by the dbDOSTM VM is brand new and adds significant functionality. It addition, the new engine adds the Networking Capability to dbDOSTM PRO 6! This now allows for multi-user network dBASE applications to work as they did back in the MS-DOS days.

While combining these features we did not lose any speed and maintain the speed dbDOSTM PRO 4 had. The new dbDOS VM engine increases the speed of the system by as much as 38% over the prior engine. It also adds what is called a live file system; which means files are automatically updated in the VM even when a file is modified outside the VM's protected area. What does that mean? It means you can use outside editors. For example, if you want to upgrade a program (.prg) you could open Notepad++ and make changes to the file outside the VM and when you save the file outside the VM those changes will be automatically reflected in the VM's space. This feature does not require a "rescan" to see the changes.

The last improvement in the engine is that because it is a live file system, it makes doing network communications and multiuser programs easier and safer in most cases. This feature alone is why dbDOS[™] now supports multi-user programs in a Network environment.

The below is an example of an application in Network mode; one instance is in edit mode on a record and the other is trying to edit at the same time. The program reports an error to the second user because the first user has the records locked.

dbDOS(TM) PRO 4 ess F9 to look up Area code	Record # 1	B dbDOS(TM) PRO 4 Press F9 to look up Area code	ها کا ا
EMPLOYEE DATABASE	== OPTION MENU ==	EMPLOYEE DATABASE	== OPTION MENU ==
LAST NAME: Adams1 FIRST: Nathan K.	Add record Edit record Delete record	LAST NAME: Adams1 FIRST: Nathan K.	Add record Edit record Delete record
ADDRESS: 989 Sarah Street Apt. 4392 CITY: Santa Fe STATE: NM ZIP: 87501 PHONE: (595)555-4556	Next record Previous record Top record Bottom record	ADDRESS: 980 Sarah Street Apt. 4302 CITY: Santa Fe STATE: NM ZIP: 87501 PHONE: (505)555-4556	Next record Previous record Top record Bottom record
DEPARTMENT: SALES TITLE: SALESPERSON SPECIALTY: COMMERCIAL SPECIALTY: COMMERCIAL EMPLOYEE NO: 703-22-333 HIRE DATE: 02-02-86	Skip records Find record	DEPARTMENT: SALES TITLE: SALESPERSON SPECIALTY: COMMERCIAL EMPLOYEE NO: 703-22-333 HIRE DATE: 02/02/86	Skip records Find record
FULL TIME: Y EXEMPT: Y LABOR GRADE: 5 SALARY: \$ 20,000.00 DEGREE: BS VEARS EXPERIENCE: 5.0 AWARDS: COMMENTS:	List records Output reports Group records Count records Index database Help Quit to MAIN MENU	NETWORK ERROR : 20.02 Record is locked by: Session2 E: 5.0 Press spacebar to try again - or press Esc to Quit_	List records Output reports Group records Count records Index database Help Quit to MAIN MENU

Application in Edit record mode

Application getting error on locked record

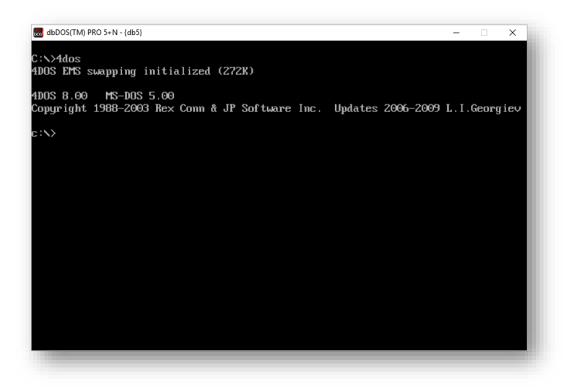


Please review the dbDOS[™] PRO 6 Networking Quick Start Guide for more information on multi-user use with dbDOS[™] PRO 6.

New – 4DOS Integration

One of the other great features we have added to dbDOSTM PRO 6 is full feature DOS Command processor replacement. Many people over the years have brought to our attention that the dbDOSTM VM does not support all the commands found in MS-DOS and this is certainly true. However, with the addition of 4DOS to the product, this limitation has been removed and now dbDOSTM VM has one of the most powerful Command-Processor for DOS commands on the planet. Some of the features include over 120 commands that can be used for batch processing or .bat files.

Here is how you start 4DOS in a configuration. Simply type 4DOS at a configurations C:\> as shown below:

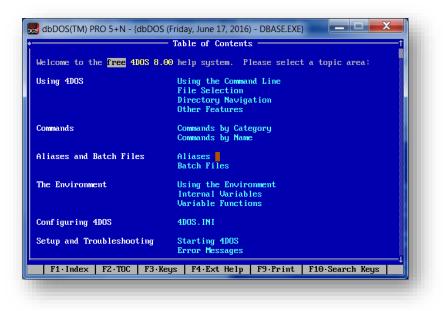


Once the new command processor is loaded you can start to work with it, a quick example is the type **Memory** at the C:\> prompt and hit return:



This is a simple configuration that goes to a command prompt

dbDOS[™] PRO 6 configuration manager adds the 4DOS command-processor directory to each configuration. This can be turned off if needed in the Advanced Wizard settings under the Autoexec Options functionality. Once at a C:> type help and hit return – the following is what you will see.



4DOS integrated help system

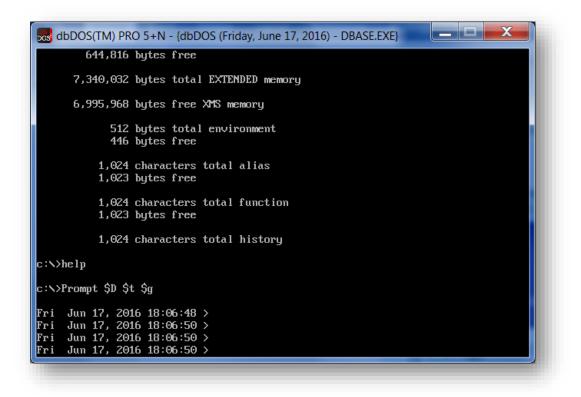


When in the 4DOS help system, use the {ESC} button to go back one step or to the prior help page.

As an example, at the C:> one of the new commands is the PROMPT command, and by typing in the following:

Prompt \$D \$t \$g

The following changes will happen to your command prompt as shown below:



Notice the command prompt now states: Fri May 1, 2015, 11:06:47 >

Therefore, as you can see the addition of 4DOS will help casual and advanced users alike take advantage of the dbDOSTM VM product in ways they could not even do back in the MS-DOS days.

There is a full reference guide included with 4DOS and it is located in the 4DOS directory. That guide can be found here: *C:\Program Files (x86)\dBASE\dbDOS Pro 5\4DOS* and is called *4DOS_ref50.pdf*.



New features of dbDOSTM 6

In each new release of dbDOS,TM the development team tries to outdo themselves. dbDOSTM PRO 6 is no exception. Review these awesome new features included in this release!

33% Faster than prior releases

The team was able to squeeze another 33% speed increase out of the product. You, as a user, will not have to do anything to realize this speed increase. There were significant optimizations found in the running and print areas that yielded the impressive speed increase.

Optimized Screen Drawing with use of the DDraw option

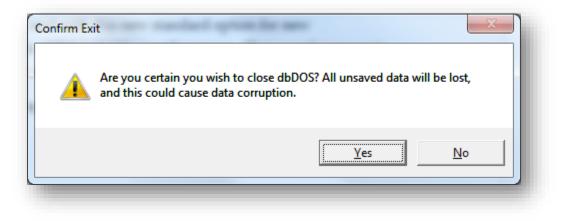
The team tested a new Display Option called DDraw, which stands for the Microsoft® DirectDraw® library. This is the display library that Microsoft® uses for their OS and Gaming features. It is all about speed and with this new standard option for new configurations, we have been seeing an additional 15% speed increase. That speed increase is on top of the impressive 33% increase in speed from the optimizations done on the product.

New Sort features in the dbDOS[™] Config Manager

Now in dbDOSTM PRO 6, you can sort your configurations by name or by description. This should help those users that have many configurations and need to find that special one.

Verify close on the main dbDOS[™] engine window

This new option will be displayed when you hit the Red X button at the top-right corner of the screen.



New Confirm Exit dialog

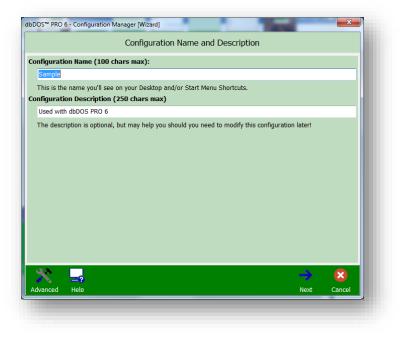


This was one of the top features requested by existing customers. This should stop that unwanted window closes that happen from time to time.

Updated - Look & Feel

dbDOS[™] PRO 6 also introduces a new look & feel to the product. It has a more modern feel and a cleaner and more easily understood graphics for increasing the ease of use. Testing has confirmed that users believe it is easier to understand, view, and use. We agree.

dbDOS™ PRO 6	- Configuration Manager		@ 	
New Config	Import Config Show Backups		User's Guide	Help
Run Edit	Configuration Title	Description	Config	Export Del
€	dbDOS (Monday, June 20, 2016) - DBASE.EXE			🗐 😣 📋
	dbDOS (Monday, June 20, 2016) - DBASE.EXE			
€	Advanced dBASE 5	This is the example using the Advnaced Wizard		. 8
5/22/2017 12:43:19	PM This	s is the example using the Advnaced Wizard		8 Configurations





(Improved) dbDOS[™] PRO 6 automatic configuration upgrades

dbDOS[™] PRO 6 updates the existing configuration found on the machine to be optimized for dbDOS[™] PRO 6 no matter which version is being upgraded. *****Warning***** this does not update the DDraw option in the Display options. The configurations will need to be updated by hand for this option.

dbDOS PRO 6 general set of small issues resolved and most known bugs removed

We are constantly fixing and updating our products and dbDOS[™] PRO 6 is no exception. The team has fixed the majority of the outstanding reported bugs in the PRO 6 release.



Great Features included with dbDOS™ PRO 6

By clicking the system menu button in the dbDOS PRO 6 VM you get the following menu:

-	Restore Move Size Minimize Maximize		Window Help — COMMAND —		-[1][1	
c	Close	Alt+F4				
	Paste From Windows (Ctrl+F9) Print to dbDOS clipboard (Ctrl+F8) Print screen to dbDOS clipboard (Ctrl+PrnScr) About		-(I) active)	8192 6584 3008 8192 464	K K K	2
	and				Num	Ins

System Menu: Mouse click the top icon for advanced features

Paste From Windows (CTRL|F9)

From Windows, if you copy text, usually Ctrl-c in a windows application you can paste that text into the dbDOS[™] system by pressing Ctrl-F9 or clicking the dbDOS[™] PRO 6 VM System menu as shown above and select the option from the menu.



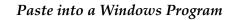
Print to the dbDOS clipboard (Ctrl-F8).

dbDOSTM PRO 6 adds a new capability to copy from the dbDOSTM PRO 6 environment to the Windows environment. This is not as easy as one would think, as DOS did not have a clipboard support. The way that dbDOSTM accomplishes this is a suggestion from on our dbDOSTM users. The system accomplishes this task by capturing any output to the printer in a windows buffer and allowing users to copy from the popup window into the Windows OS. This option can be turned on, and left on, as long as you can print Interpreted using the Print option. ALL output when this option is on is put into the popup window, as shown below:

17	Palm Springs	619			~
18	Palo Alto	415			
19	Palm Beach Gardens	305			
20	Chicago	312			
21	New York	212			
22	Washington	202			
23	Boston	617			
24	Detroit	313			
25	St. Louis	314			
26	Portland	207			
27	Atlanta	404			
28	Cleveland	601			
29	Baltimore	301			
30	Dallas	214			
31	Denver	303			
32	Buffalo	716			
33	Long Beach	213			
34	Cincinnatti	513			-
35	Miami	305			
	Milwaukee	414			
37	Nashville	615			
38		504			
39	Los Angeles	213			
					-
			-		X
			150	-	
			Print	Clipboard	Close

ile	Edit	Format	View	Help			
ile	19 20 21 22 23 24	Bostor	Beach go ork ngton it it ouis	<u>Help</u> Gardens	305 312 212 202 617 313 314 207 404		*
							4

Copy contents from dbDOS -



There are some limitations to this approach, one you must be able to use the Print features that will be captured out in the new buffer. We have implemented multiple windows for multiple outputs, so you need to keep track of all the output windows.



This will allow for the Print of the buffer using the Interpreted Print functionality.



Pressing this button will put the contents of the display into the standard Windows® clipboard feature. This can then be copied like any other clipboard item.





This will close the window and clear the clipboard buffer.



Print screen to dbDOS Clipboard (Ctrl-PrnScr)

The next feature has been requested since the introduction of dbDOSTM. In the old DOS based programs, there was the ability to print the screen contents to a printer. We have now implemented that functionality in dbDOSTM PRO 6.

Pressing the Ctrl-PrnScr button or clicking the dbDOS[™] PRO 6's System menu and selecting the menu item will take a screenshot of the current screen.

i deDOS(TM) PRO i de DOS(TM) PRO i de Contrano i de Contrano i de DOS(TM) PRO i de Contrano i de Contrano		dbDOS - Screen Capture	—
36 Hilaankee 414 37 Hashville 615 38 Hew Orleans 504 39 Los Angeles 213	File Edit Search Program Tools Options Window Help Open Open CONTRND Cultor Cultor Save Save Save as Save as Save as Save all Print Contract Save as Dos shell Exit Alt-F4 Sol 33 Long Beach 213 34 Cincinnatti 513	Boundary Uppen Bave Save Save <th></th>	
Save As Olipboard Print Close	36 Hilaukne 414 37 Mashville 615 38 New Dricans 504 39 Los Angeles 213	Greate a new File in a new editor window	🗈 🚿 🗙

Actual Screen

Screen Print Interface

Notice that the Screen Capture interface has four options:



dbDOS[™] PRO 6 gives the ability for the user to save the picture for future review or printout.



dbDOSTM PRO 6 gives the ability to copy the contents of the screen capture into the Windows clipboard feature and can be used as any other item in the Windows clipboard.



dbDOS[™] PRO 6 gives the ability to Print the Screen Capture to a printer



dbDOSTM PRO 6 gives the ability to close the picture and it will be discarded from memory.



Better Printing with dbDOS PRO 6

dbDOS PRO 6 comes with multiple ways of printing. As stated above this is one of the hardest parts of dbDOS to get working consistently. In dbDOS PRO 6, we introduce three (3) major features around printing, one being the new Enhanced Printing and also the ability to output the reports into PDF format.

In addition to those improvements, we have also included a set of new printer drivers (old printer drivers actually) and found that a few offer better support than the generic that has been included in the products before. These new drivers use more cross-printer escape codes to give a more standard print or output. The most consistent driver we have found for going across a number of printers is the Epson FX80 print driver.

The easiest way to support the driver is to add the driver line to your code. Make sure the driver is located in the dbase directory and also the directory if you have a compiled application. Adding the line is simple:

_pdriver = " fx80_1.pr2"

When using the new Enhanced Print settings this will produce fairly consistent reports. Again, remember that the printer drivers from back in the 80's and 90's were responsible for doing the advanced features like: Bold, Underline, Italics, Superscript, Subscript, and character graphics output. For example, if you use the ASCII.pr2 driver that is included with both dBASE IV and V for DOS it does not support any of those advanced features and will not recognize the commands if found in the code. While another driver, HPLASER.pr2 may support those commands and many others. <u>The output power is in the printer driver</u>.

This does mean that you need to have access to your code so that it can be switched. If access to the code is not possible, then it may be possible to set the default FONT in the dbsetup.exe. This option would only be available to dBASE IV and V users and dbBASE III+ did not offer the print driver options.

If those options are exhausted then it is recommended that you try the Direct print option. Remember that you will have to pick a default printer with that option and the configuration can have only one printer. This means if you need different printouts that you may need multiple configurations.

If all else fails, you must use one of the legacy printer approaches of RAW or Interpreted. In addition, if you are not having print issues, it is recommended that you do not change what is



working. If you want to play or test another driver, make a copy of the configuration by exporting it and then reimporting it and then change the copy as a best practice.

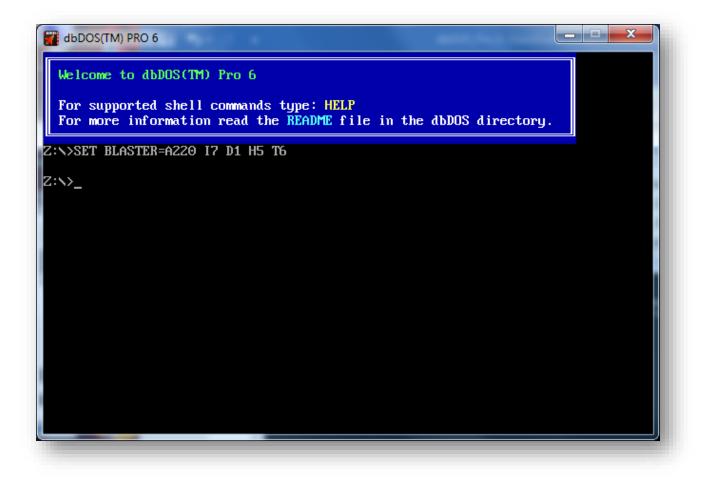
DOES THIS ELIMINATE ALL PRINT ISSUES? Unfortunately, no! There are still instances where the printer hardware and dbDOS will just not communicate. In that instance, either the code has to be changed to work with the existing hardware or new known hardware needs to be purchased by the users.



Here is an example of how to use the dbDOS Command prompt (configured to use dBASE V



DOS) Double-clicking on the **will** take you to the {drive}: > as shown below:





Execute a DIR command and the following displays:

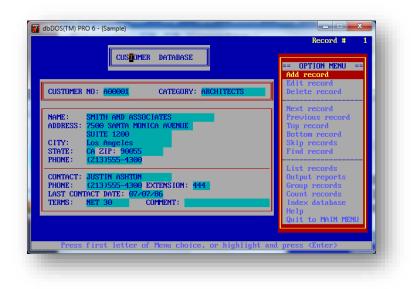
LABEL.GEN	LABEL . PRF	LDR IVERS . DBD	LOG IN.DB	MENU.GEN
PMINF032.EXE	PROJECT.CFG	QUICKAPP.GEN	QUICKT.PRG	QUICKTP.BAK
QUICKTP.DBO	QUICKTP.PRG	README	README . COM	REPORT.GEN
REPORT.PRF	RICKPRT.PRG	RICKPRT1.BAK	RICKPRT1.DBO	RICKPRT1.PRG
RMINFO.EXE	[SAMPLES]	SHARE . EXE	[SQLHOME]	TEST.BAK
TEST.DBO	TEST.PDF	TEST.PRG	TEST.TXT	TEST2.BAK
TEST2.DBO	TEST2.PRG	TMEMORY . BAK	TMEMORY.DBO	THEMORY.PRG
TMP00061.\$DB	TMP03011.\$DB	TMP03179.\$DB	TMP04975.\$DB	TMP05301.\$DB
TMP06532.\$DB	TMP 08060 . \$DB	TMP15177.\$DB	TMP15792.\$DB	TMP16611.\$DB
TMP21853.\$DB	TMP24131.\$DB	TMP25913.\$DB	TMP26470.\$DB	TMP27452.\$DB
TMP28290.\$DB	TMP33329.\$DB	TMP35474.\$DB	TMP37722.\$DB	TMP 39308 . \$DB
TMP40482.\$DB	TMP 40708 . \$DB	TMP41610.\$DB	TMP42171.\$DB	TMP45070.\$DB
TMP47462.\$DB	TMP47630.\$DB	TMP49289.\$DB	TMP52015.\$DB	TMP52718.\$DB
TMP55447.\$DB	TMP56326.\$DB	TMP56631.\$DB	TMP59040.\$DB	TMP59399.\$DB
TMP60638.\$DB	TMP62215.\$DB	TMP66493.\$DB	TMP66572.\$DB	TMP69819.\$DB
TMP69835.\$DB	TMP72850.\$DB	TMP74041.\$DB	TMP78461.\$DB	TMP80055.\$DB
TMP81262.\$DB	TMP82505.\$DB	TMP82570.\$DB	TMP84475.\$DB	TMP84580.\$DB
TMP84860.\$DB	TMP85250.\$DB	TMP85975.\$DB	TMP86319.\$DB	TMP86724.\$DB
TMP87145.\$DB	TMP87229.\$DB	TMP91186.\$DB	TMP93353.\$DB	TMP 96448 . \$DB
TST.PDF	T_BOX_PC.PRG	T_BOX_PE.PRG	T_BOX_PR.BAK	T_BOX_PR.DBO
T_BOX_PR.PRG	UNTITLED.CAT	UTILITY.ZIP		
147 File(s)	25,517,957	Bytes.		
6 Dir(s)	262,111,744	Bytes free.		
C:\>_				

As you can see this is the main directory from dBASE V DOS and if the dbase.exe command is executed the following will appear:

File	Edit	Search	Program	Tools	Op <mark>d</mark> ions	Window COMM	Help aND			
			L			-(0				7
ommand								-	Num	Ins

dBASE V executes as expected. Keep in mind that **NO** changes have been made to dBASE DOS and all functions that you normally have in a dBASE V DOS running on a Microsoft DOS machine will work <u>in dbDOS's VM</u>. As you can see below the AREACODE.PRG is ready for modification:





Using the mouse with dbDOS[™] PRO 6 is automatic If you click with the mouse inside the window; dbDOS[™] will properly show the mouse cursor inside the window. If you want to exit the mouse in the window, press the CTRL-F10 and the mouse will be returned to the Windows[®] operating system. An example is shown below:

		O 6 - {Sampl	e} Program	Tools	Ontions	Window	Help		
			- C:NSAMP				-	-2	1
• PROG • • • LAST	iram na ' Chang	ime: Cust Cust Samp (ED: 09/2	******** .PRG OMER DATA LE BUSINE 5/89 09:2 and Inter	BASE SC SS APPI 6AM	REEN ICATION F		******	***	
	*****	*****	*****	*****	*****		******	***	
e e	Data		e = Cust		(Customer	file)			
e ,			= Cust t = cust		Manton	ndev			
·[]]=		THG: Cus	t - cust		ssage —	naex			3-1
Comp	ile co	mplete:	05/22/17						
Comp	oile: C	SAMPLE	SNCUST.PR	G					į
				Edit	Source				Ins



Also be aware that all dBASE "." commands work as expected. This is essentially running the dBASE program in a DOS window. You can also run Compile, Debug, Run, and Link dBASE programs as you normally would. An example of the Areacode.exe sample shown:

VENDORS DATABASE	= OPTION MENU =
VENDOR NUMBER: 1000	Add record Edit record Delete record
NAME: DYNAMITE INDUSTRIES ADDRESS: 54 N. MAIN CITY: Sacramento STATE: CA ZIP: 46002	Next record Previous record Bottom record Skip records Find record
CONTACT: P. MORGAN, SR. PHONE: (916)555-3000 EXTENSION: TERMS: NET 15 DISCOUNT: 0 %	List records Output reports Group records Count records Index database Help Quit to MAIN MENU



Quick Keyboard shortcuts

dbDOSTM supports a number of different keyboard shortcuts that end-users can use to make the experience with dbDOSTM even better. All the standard keyboard commands of MS-DOS are supported, and some additional ones listed below:

• **Alt-Enter** – This will take the end-user from Full-Screen to Windows screen. If end-user is in a windowed setting pressing the **Alt-Enter** will take the product full screen. Hitting the **Alt-Enter** again will put the end-user back into a windowed setting.

Note: Moving from full-screen mode to window and window to full-screen mode may not always work with different graphics cards. This mode is supported but due to the differences in the way graphics card word, the presentation may become unstable.

Activate: Hold the Alt key down and press the Enter key

• **CTRL-F9** – This will KILL the dbDOS[™] windows or session. If for some reason the enduser needs to exit or kill the running program pressing the CTRL-F9 key combination, will close the dbDOS[™] window and thus will kill the dbDOS[™] session as well.

**Please be aware the closing a window with CTRL-F9 could cause corruption as the window/session is automatically killed with no regard to open files or mid-process, use with caution.

Activate: Hold the CTRL key down and press the F9 key

CTRL-F10 – This will enable or release the mouse. If you have mouse control for the DOS application and the end-user would want to escape back to the Windows OS, press the CTRL-F10 and the mouse control will be released from the dbDOSTM window. While on a dbDOSTM window, if CTRL-F10 is pressed the mouse will be activated inside that window.

Activate: Hold the CTRL key down and press the F10 key



Glossary of Terms:

• Microsoft DOS® or MS-DOS®

This is a reference to Microsoft Disk Operating System or DOS environment. Microsoft DOS and MS-DOS can be used interchangeably and is sometimes shorted to just DOS. dbDOS[™] PRO 6 is designed to run MS-DOS application from version 3.0 – 6.0.

• dbDOSTM PRO 6

dbDOS[™] PRO 6 is a complete approach to running MS-DOS-based application and specifically dBASE version of the DOS programs. dbDOS[™] PRO 6 comes with the DOS emulation virtual machine, a configuration program, and the ability to print either local or networked based printers. *****Each network node must be licensed separately*****

• dbDOSTM PRO 6 VM or VM

The dbDOS[™] VM or VM stands for Virtual Machine and with dbDOS,[™] it is an MS-DOS emulation that allows products developed for DOS based application to run inside the virtual machine. The VM supports the Windows® Operating Systems (XP, 2003, Vista, 2008, 7) in either 32 or 64-bit editions.

• DOS Compatible software

Software that was compiled to run specifically on the DOS system.

• Program Executable

On a DOS-based system, this could be either a file name with the extension of .com or .exe

Program Command-Prompt

The base directory where the Program Executable would be located. Using dBASE V for DOS as an example it was usually installed on the main drive under the en directory. Therefore, the Program Command-Prompt for dBASE.exe would be {drive}:\en\>

• Windows Shortcut to Program Command-Prompt

This is an Icon or menu item that points to a program's default or executable directory. Double-clicking on the shortcut will take the end-user to the Command-Prompt for that



directory. dbDOS_Config.exe can be used to create this shortcut.

• Windows Shortcut to Program Executable

This is an Icon or Menu item that points to the Program itself and when double-clicked to execute that program. dbDOS_Config.exe can be used to create this shortcut.

• Local Print

dbDOS[™] PRO 6 will allow you to print to a local printer. In the DOS days, this printer would be referred to as LPT1. dbDOS[™] allows you to print to any connected Printer.

• Network Print

dbDOS[™] PRO 6 will allow for network printing as well. When you create a shortcut for a program you can assign the networked printer's IP address. (advanced end-users only)

• dbDOS_Config.exe

The main program for building shortcuts in dbDOS[™] 1.5. This program will allow you to configure each shortcut with specific options to optimize the end-users experience.

• Program Directory

The directory on the Windows based machine that has the needed executable (.com or .exe).

• Data Directory

The directory on the Windows based machine that has the program or application data.

• Program & Data Directory

The directory on the Windows based machine that has the needed programs and data located.