

# Pascal-W Help Index

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## Pascal-W

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## Pascal-W Limitations

Pascal-W is not a full implementation of standard Pascal in some areas. However, it contains many enhancements to standard Pascal as well.

Standard Pascal features not in Pascal-W

- enumerated types
- set types
- pointer types
- the WITH statement for use in records
- variant records

Pascal-W also has these size limitations

- 64K of code; since this is of a PCODE type nature this would be a very large program
- 64K of constant strings; the text enclosed in single quotes in your program
- 32K of variables; this is the size of the storage, not the number of variables you can have

## Pascal-W Capabilities

Pascal-W is also extended in many areas beyond standard Pascal.

Pascal-W supports an array of chars starting with a zero index as a string. This allows string comparisons, string assignments, strings to be used in the formal parameter list for functions and procedures, and read/write capabilities for strings. However, Pascal-W does not allow the plus(+) operator to be used on strings.

Pascal-W supports many intrinsic functions and procedures not found in standard Pascal, these functions and procedures allow Pascal-W to better interact with the Windows environment.

Pascal-W is one of the very few Windows programs that performs pre-emptive multitasking. And it may very well be the only Windows programming environment where it always allows other programs to run. For example, when doing heavy computations (like a iterative loop), Pascal-W still allows you to click on other windows or do something else during the computation.

Pascal-W supports multi-threading within itself. It provides support for co-routines and semaphores for synchronization. You may have up to four co-routines running simultaneously. The enable and disable routines can be used to enclose a critical section and prevent a co-routine switch. The signal and wait routines are used to release and hold on a semaphore. The SMOKER.PAS program demonstrates their usage.

Pascal-W supports inclusion of other Pascal source files through the use of \$I from within a comment statement. This allows you to break up your program into multiple source files.

## **More information about Pascal-W**

The Pascal-W program was written by Rick Wirch with some parts by Chris Davis. Some of the documentation (the well written parts) were written by Pam Hudson. Bob Norton also provided much inspiration and help (as well as the idea to release this to the public).

Bob Norton can be reached on Compu-Serve. CIS ID [70017,1765]

Rick Wirch can be reached by the powerful US mail system

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## **An example of \$I usage**

Program Multi( input, output );

{ \$I Another.PAS }

Begin

  Write( Variable declared in Another.PAS );

End.

## Pascal-W Keys

Use the following keys in Pascal-W:

<i>Key(s)</i>	<i>Function</i>
Ctrl+Insert	Copies text into the Clipboard.
Ctrl+Delete	Cuts text and places it into the Clipboard.
Delete	Deletes text.
Shift+Insert	Pastes the contents of the Clipboard into the file.
F1	Displays help for the Pascal-W application.
F3	Locates the next occurrence of specified text without opening the Find box.
F4	Changes the next occurrence of specified text to new text without opening the Find box.
F9	Searches for errors in the program file.

# Pascal-W Menu Commands

To get help with a particular menu command, choose the appropriate menu.

## File Menu Commands

- New
- Open
- Save
- Save As
- Print
- Exit

## Edit Menu Commands

- Undo
- Cut
- Copy
- Paste
- Delete
- Select All

## Search Menu Commands

- Find
- Find Next
- Change
- Change Next
- Program Errors

## Window Menu Commands

- Tile
- Cascade
- Arrange Icons
- Close All

## Pascal Menu Commands

- Run
- Stop
- 1/4 Speed
- 1/2 Speed
- 3/4 Speed
- 4/4 Speed

## File Menu Commands

These commands enable you to create, open, save and print files or quit the Pascal-W application.

### **New**

Displays a blank work area so you can create a new program file.

Related Topics

[Creating a file](#)

### **Open**

Lets you select a file from the computer's fixed disk or from a floppy disk. It then displays the file's contents in the Pascal-W work area. You can open and modify multiple files while using the Pascal-W application.

Related Topics

[Opening a file](#)

### **Save**

Saves the file's contents to the name indicated on the title bar.

Related Topics

[Saving a file](#)

### **Save As**

Lets you save the file's contents to the same name or to a different name.

Related Topics

[Saving a file](#)

### **Print**

Sends the file's contents to the printer.

Related Topics

[Printing a file](#)

### **Exit**

Closes any open files and quits the Pascal-W application. If any of the open files have not been saved, you can save each file before exiting.



## **Edit Menu Commands**

These commands enable you modify a file.

### **Undo**

Cancels the last change you made to the file.

Related Topics

[Undoing your last action](#)

### **Cut**

Deletes the selected text and copies it into the Clipboard.

Use Paste to insert the text in another location in the same file or into a different file.

Related Topics

[Copying, deleting, and moving text](#)

[Selecting text](#)

### **Copy**

Copies the selected text into the Clipboard.

Use Paste to insert the text in another location in the same file or into a different file.

Related Topics

[Copying, deleting, and moving text](#)

[Selecting text](#)

### **Paste**

Inserts a copy of the text in the Clipboard at the insertion point or replaces the selected text.

Related Topics

[Copying, deleting, and moving text](#)

[Selecting text](#)

### **Delete**

Deletes the selected text; the text is not copied to the Clipboard.

Related Topics

[Copying, deleting, and moving text](#)

[Selecting text](#)

### **Select All**

Highlights all the text in the file.

Related Topics

[Copying, deleting, and moving text](#)

[Selecting text](#)



## Search Menu Commands

These commands enable you to locate and modify text in a file.

### **Find**

Searches the file for the specified text.

Related Topics

[Finding text](#)

[Replacing text](#)

### **Find Next**

Searches the file for the next occurrence of the specified text.

Related Topics

[Finding text](#)

[Replacing text](#)

### **Change**

Replaces the specified text with new text.

Related Topics

[Finding text](#)

[Replacing text](#)

### **Change Next**

Replaces the next occurrence of the specified text with new text.

Related Topics

[Finding text](#)

[Replacing text](#)

### **Program Errors**

Searches for errors in the program.

Related Topics

[Searching for programming errors](#)

## Window Menu Commands

These commands enable you to modify the appearance of the Pascal-W application window.

### **Tile**

Sizes the open file windows so they fit within the Pascal-W application window.

Related Topics

[Arranging file windows](#)

### **Cascade**

Arranges the open file windows so you can see each one's title bar.

Related Topics

[Arranging file windows](#)

### **Arrange Icons**

Aligns the icons for any open file windows along the bottom of the Pascal-W application window.

Related Topics

[Arranging icons](#)

### **Close All**

Close all of the files that are currently open. This command doesn't close the Pascal-W application.

Related Topics

[Closing all open windows](#)

## **Pascal Menu Commands**

These commands enable you to start and stop a run. Plus you can select the speed at which a program should run (1/4 is the slowest speed and 4/4 is the fastest speed).



## Pascal-W Procedures

For step-by-step instructions, select one of the following topics.

[Arranging icons](#)

[Arranging file windows](#)

[Closing all open windows](#)

[Copying, deleting, and moving text](#)

[Creating a file](#)

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## Arranging icons

The Pascal-W application can arrange file icons for you, or you can arrange them yourself.

### **To arrange icons automatically:**

- \* Choose Arrange Icons from the Window menu.

The application aligns the icons for any open file windows along the bottom of the Pascal-W application window.

### **To arrange icons manually:**

- \* Drag each icon to its new location.



## Arranging file windows

Using the File and Cascade commands, you can arrange the open file windows so that you can see part of each window.

### To arrange all of the open file windows:

- \* Choose File or Cascade from the Window menu.

Tile sizes the open file windows so they fit within the Pascal-W application window. None of the windows will overlap.

Cascade arranges the open file windows so you can see each one's title bar.

## **Closing all open windows**

**To close the window for all open files:**

- \* Choose Close All from the Window menu.

If any of the file windows have not been saved, you can save the file before it closes.

## Copying, deleting, and moving text

### To copy text (and place it into the Clipboard):

- Mouse
- 1 Select the text to be copied.
  - 2 Choose Copy from the Edit menu.
- Keyboard
- 1 Select the text to be copied.
  - 2 While holding down the Ctrl key, press the Insert key.

### To delete text (and not copy it into the Clipboard):

- Mouse
- 1 Select the text to be deleted.
  - 2 Choose Delete from the Edit menu.
- Keyboard
- 1 Select the text to be deleted.
  - 2 Press the Delete key.

### To move text:

- Mouse
- 1 Select the text to be moved.
  - 2 Choose Cut from the Edit menu.
  - 3 Position the insertion point where you want to insert the text.  
Or select the text you want to be replaced.
  - 4 Choose Paste from the Edit menu.
- Keyboard
- 1 Select the text to be moved.
  - 2 While holding down the Ctrl key, press Delete.
  - 3 Use the direction keys to move the insertion point where you want to insert the text.  
Or select the text you want to be replaced.
  - 4 While holding down the Shift key, press Insert.

## Creating a file

To begin work on a new file:

\* Choose New from the File menu.

Related Topics

[Opening a file](#)

## **Finding text**

### **To locate a word or text string in the file:**

- 1 Position the insertion point where you want to start the search (usually at the beginning of the file).
- 2 Choose Find from the Search menu.
- 3 Type the text that you want to search for in the Find What text box.
- 4 Choose Find Next to begin the search.
- 5 Repeatedly choose Find Next to locate any other occurrences of the text.

### **To search without using the Find box:**

- 1 Use the Find command, as described above, to find the first occurrence of the text.
- 2 Close the Find box.
- 3 Press F3.

## Opening a file

### To display the contents of a file:

- 1 Choose Open from the File menu.
- 2 Type the desired path and filename in the text box.

Or, select the name from the list box. The list box displays the programs you have previously written and saved on your computer. If necessary, use the scroll bar to display additional names. To change to the parent directory of the current directory, double-click on [..]. Double-click on [-A-] to change to the root directory of floppy drive A; other letters correspond to other available drives.

When the desired file name appears in the list box, click on its name.

- 3 Click on Open.

### Related Topics

[Creating a file](#)

## **Printing a file**

**To print the contents of a file:**

- 1 Choose Print from the File menu.

## Quitting

To exit the Pascal-W application:

- \* Choose Exit from the File menu.

If any of the file windows have not been saved, you can save the file before it closes.



## Replacing text

### To find and replace a word or text string:

- 1 Position the insertion point where you want to start the search (usually at the beginning of the file).
- 2 Choose Find from the Search menu.
- 3 Type the text that you want to search for in the Find What text box.
- 4 Type the replacement text in the Change To text box.
- 5 Choose one of the command buttons.

<i>Command Button</i>	<i>Function</i>
Find Next	Searches for the word or text string.
Change, then Find	Changes the currently selected search text with the replacement text, and then finds the next occurrence.
Change	Changes the currently selected search text with the replacement text.
Change All	Changes all occurrences of the search text with the replacement text.

### To change without using the Find box:

- 1 Use the Find command, as described above, to find the first occurrence of the text.
- 2 Close the Find box.
- 3 Press F4 to change the next occurrence of the search text.

## **Saving a file**

### **To save changes made to the current file:**

- 1 Choose Save from the File menu.

### **To save a new file or the current file under a different name:**

- 1 Choose Save As from the File menu.
- 2 Type a filename.
- 3 Choose Save.

## **Searching for programming errors**

**To search for errors in the program file:**

- \* Choose the Program Errors command in the Search menu (or press the F9 key).

## Selecting text

Selected text is white with a black background.

### *To use mouse to select*

### *Do this*

One or more words

Point and click to position the insertion point to the left of the first character. While pressing the left mouse button, move the mouse to the right until the desired text is selected.

Several lines

Position the mouse pointer along the left margin. The pointer slants to the right. While pressing the left mouse button, move the mouse up or down until the desired text is selected.

Entire file

Choose Select All in the Edit menu.

### *To use keyboard to select*

### *Do this*

One or more words

Use the direction keys to position the insertion point to the left of the first character. While pressing the Shift key, use the right direction key to select the desired text.

Several lines

Use the direction keys to position the insertion point to the left of the first line to be selected. The pointer slants to the right. While pressing the Shift key, use the down direction key to select the desired text.

Entire file

While pressing the Alt key, press E to open the Edit menu. Then press S to choose the Select All command.

## **Undoing your last action**

To cancel the last change you made to the file:

- \* Choose Undo from the Edit menu.

## Pascal-W Intrinsic Commands

Intrinsic Functions

Intrinsic Procedures

## Intrinsic Functions

These are the standard functions intrinsic to the language.

A Pascal reference manual should provide the additional information you need.

abs( real expr ) : integer or real

arctan( real expr ) : real

chr( integer expr ) : char

cos( real expr ) : real

eof( file : text ) : boolean

eoln( file : text ) : boolean

exp( real expr ) : real

frac( real expr ) : real

keypressed : boolean

ln( real expr ) : real

length( string expr ) : integer

odd( integer expr ) : boolean

pos( substring, string : string ) : integer

pred( real expr ) : integer or real

random( integer expression ) : integer

readkey : char

round( real expr ) : integer

sin( real expr ) : real

succ( real expr ) : integer or real

sqr( real expr ) : integer or real

sqrt( real expr ) : integer or real

trunc( real expr ) : integer

upcase( char ) : char

ord( integer expr ) : integer

## Intrinsic Procedures

These are the standard procedures intrinsic to the language.

A Pascal reference manual should provide the additional information you need.

```
append( var file : text )
assign( var file : text, name : string )
chdir( dirname : string )
close( var file : text )
clrscr
dec( var x : integer )
delay( mS : integer )
disable
enable
erase( var file : text )
gettime( var hour, min, sec, hund : integer )
inc( var x : integer )
mkdir( dirname : string )
nosound
randomize
read( . . . )
rename( var file : text, newname : string )
reset( var file : text )
rewrite( var file : text )
rmdir( dirname : string )
signal( var i : integer )
sound( Hz : integer )
wait( var i : integer )
write( . . . )
```



