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Warp Factor 7

OnScreen/2 the File Manager and viewer for OS/2, DOS & Win32

Warranty

The author hereby disclaims all warranties relating to this software, whether express or implied, including without limitation any implied warranties of merchantibility or fitness for a particular purpose. The author will not be liable for any special, incidental, consequential, indirect or similar damages due to loss of data or any other reason, even if the author or an agent of the author has been advised of the possibility of such damages. In no event shall the author's liability ever exceed the price paid for the license to use the software, regardless of the form of the claim. The person using the software bears all risk as to the quality and performance of the software.

Support

The only form of support available for **OnScreen/2** at the moment is via Email or surface mail to the author. You may also telephone at 353-1-4937616 generally between the hours of 6pm-11pm GMT, although I can't guarantee to be in. I expect to get a CompuServe account soon and support will also be available there.

Email and surface mail information is provided below.

Availability

OnScreen/2 is normally available from the following sites hobbes.nmsu.edu:/os2/32bit/editors & ftp.cdrom.com:/os2/32bit/editors for the OS/2 version, garbo.uwasa.fi:/pc/fileutil for the DOS version and ftp.cica.indiana.edu:/pub/pc/win3/nt for Win32 version.

It may be available from other locations but the above will have the most recently released versions or bug fixes.

If you are a registered user you will be informed via email of bug fixes and new releases.

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CompuServe:

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1 Getting Started

1.1 Introduction

Welcome to OnScreen, a sophisticated fullscreen text and binary file viewer for the OS/2, DOS and Win32 operating systems running on IBM compatible PCs based on the 386 or higher CPUs.

OnScreen/2 displays files in a text window or fullscreen session and provides scrolling, positioning and filtering commands. The motivation behind OnScreen/2 was to provide an identical (or as near as possible to) text mode file viewer for OS/2, DOS and Win32.

 ${\tt OnScreen/2}$ provides a powerful File Manager for selecting files which also provides basic file management functionality.

OnScreen/2 supports redirected input (i.e. piping).

1.2 Installation

OnScreen/2 installation could not be simpler, just change into the directory where you unzipped OnScreen/2 to and run install.

If you executed the command $unzip os2_11or.zip$ in A:\ then you would have a directory named OnScreen/2 in A:\. Simply change to A:\ and type install.

If you are using PKUNZIP you will have to use the $-\mathbf{d}$ option otherwise the directory structure required by the installation program will not be created.

When installing the OS/2 or Win32 version you can install either the .DLL implementation or the non .DLL implementation. If you do not envisage installing any of the other Warp Factor 7 utilities (availability early 95) then installing the non .DLL version is most likely what you should do.

The installation program allows you to specify which directory to use for the <code>OnScreen/2</code> base files and the .DLL files. It also allows you to specify whether you want the .DLL version or not.

1.3 Compatibility

 ${\tt OnScreen/2}$ 2.11 has been tested for compatibility with the following operating systems.

OS/2: Versions 2.0, 2.1, 2.11 and 3.0 Warp.

Windows NT: Version 3.5 only.

Windows 95: Final beta only.

DOS: Versions 5.0, 6.0, 6.21, 6.22.

1.4 Acknowledgements

Henk Den Adel for writing the original manual and for his continued testing and suggestions. Mitch Williams, Lionel B. Dyck and Norris Counch for Beta testing. Kevin Scally for the fabulous Warp Factor 7

Borland International for their C++ compilers, DOS Extenders and Brief editor.

1.5 Feature list

- Case-sensitive/insensitive regular expression and plain text searches.
- Horizontal scrolling 10 chars at a time.
- Page up & down.
- Go to top or bottom of file.
- Go to a specific line.
- Go to previous or next file.
- Load OS/2, MAC & Unix text files and binary files.
- Supports redirected stdin.
- Command help with ? or F1. (os.hlp must be in same dir as os.exe)
- Toggleable sound.
- Toggleable tab expansion.
- User configurable tab size.
- Customisable colours.
- Configuration saving.
- Quick file select using keys 1 to 9.
- 32bit versions for OS/2, DOS and Windows NT.
- Selection list for loaded files.
- Remove file from loaded list.
- Run with no arguments brings up file selection browser.
- Run with one argument which is a directory brings up file selection browser.
- Line editor with history recall for input on bottom status line.
- Bookmarks.
- Multiple top line display formats.
- Hex mode.
- Bright background colours.
- Display of text with layout information.
- User definable styles, including syntax highlighting.
- Invoke editor. (Including PM or Win32 apps)
- Display output of filter rather than file contents.
- Enhanced file selection browser with edit, copy, rename, delete, move, sort, change directory, make directory and set file matching pattern.
- Search in HEX mode.
- Go to offset in HEX mode.

1.6 Future stuff

- Faster regular expression searching.
- ullet Option to use standard OS/2, DOS or NT wildcards.
- Background file loading.
- File tagging in the File Manager.
- Invoke any command on tagged file set.
- User specified key bindings.
- Text with layout recognize ANSI Escape sequences.
- Cross file bookmarks.
- Printing support including Postscript.

2 Using OnScreen

2.1 Starting OnScreen

2.1.1Command line syntax

You may start OnScreen/2 with or without parameters. The general syntax is as follows:-

os [switches] [filespec...]

Switches comprise one or more $\!\!\!/$ characters followed by option letters or numbers. (eg. /help)

The following switches are available in this release.

displays the list of switches /help /ignorestdin causes OnScreen/2 to ignore redirected stdin /raw style disables filter for specified style

/search regexp|plain set searches to regular expression or plain

text

/textwithlayout on off turn textwithlayout on or off turn highbit filter on or off /highbit on|off

A hyphen (-) may be used in place of the /. The environment variable

SWITCHCHAR can be set to the list of characters that will be accepted as switch characters. (eq. SET SWITCHCHAR=/-\$)

Filespec may be one or more filenames which may contain wildcards. OnScreen/2 uses a regular expression pattern matcher for the wildcards and therefore does not conform to the standard OS/2, DOS or Win32 command shell wildcards.

OnScreen/2 wildcards are as follows:-

- Match zero or more occurrences of any character.
- Match the period/fullstop character.
- Match a single occurence of any character.
- Match a single occurence of specified characters.
- [a-z] Match a single occurence of specified range of characters.

For example the wildcard file specification $\mathbf{xxx}.[\mathbf{qa}] * .\mathbf{xyz}$ will match files beginning with $\mathbf{x}\mathbf{x}\mathbf{x}$. followed by a \mathbf{q} or an \mathbf{a} and zero of more occurrences of any character followed by .xyz.

If OnScreen/2 is started without any command line parameters or with a single parameter which is the name of a directory it will bring up the File Manager.

2.1.2Redirection/piping

OnScreen/2 is capable of acting as a command line filter. An example of this is:-

```
[C:\]dir c:\ /s | os
```

There are some restrictions in the current release. With this release ${\tt OnScreen/2}$ has to read the entire output before it will display anything. This means that until the command which is generating the output has completed you will not be able to view the output with OnScreen. This restriction will be lifted in a future release.

2.2 **Exiting OnScreen**

There are three different ways to exit from OnScreen.

The Alt+Q command clears the screen and then returns to the prompt. The Q and X commands also perform the same function. The Alt+Qfunction works in both the file viewer and the File Manager. The Q and X commands only work in the file viewer.

The Alt+A command returns to the prompt clearing the last line on the screen but otherwise leaving the display exactly as it was. The Ctrl+X and ESC commands also perform the same function but only work in the file viewer and the ESC command only quits if there are no files are loaded.

The Alt+X key combination restores the screen to the display you had before OnScreen/2 was run and then returns to the prompt. It works in both the file viewer and the File Manager.

2.3 File Viewer

2.3.1Commands

You control the OnScreen/2 File Viewer by pressing keys or combinations of keys which correspond to the OnScreen/2 File Viewer commands. Some commands have more than one key combination associated with them, e.g. Next File = Alt+N or Ctrl+PgDn.

The key combinations associated with specific commands are preprogrammed into the OnScreen/2 File Viewer and cannot be changed at this time. This restriction will be lifted in a future release.

2.3.2Text with layout information

OnScreen/2 can display files containing text with layout information. Files with layout information contain special characters that direct OnScreen/2 to display subsequent characters in a different colour. This User's Guide contains these special characters. If you are viewing this guide using OnScreen/2 you can press $\bf L$ now to toggle text with layout information off so you can see these characters.

Two methods of controlling the colour of the text are supported.

UNIX(tm) nroff style and Wordstar(tm) style.

nroff uses the following format:-

_<BKSPACE><CHARACTER> Display character in underlined colour.

<CHARACTER><BKSPACE><CHARACTER> Display character in

bold Colour.

Wordstar(tm) uses the following format:-

^B text ^B Display text in bold colour.

^S text ^S Display text in underlined

colour.

^B^S text ^S^B Display text in bold and

underlined colour.

The text with layout option can be toggled with the L command, it can also be set on a per file-type basis by creating a style with the text with layout option either ${\tt ON}$ or ${\tt OFF}$ in the os.set settings file.

2.3.3Tab Expansion

When Tab expansion is enabled <code>OnScreen/2</code> will display the correct number of spaces for each Tab character it encounters. The default Tab size is 3, but this can be changed with the Tab and Shift+Tab commands. The Tab size can also be set on a per file-type basis by creating a style with a specific Tab size in the os.set settings file.

2.3.4Hex Mode

Hex mode displays the file in a format similar to the debug command. When switching between text mode and hex mode an attempt to retain the same positioning is made, but this is not always perfect. Hex mode can be toggled with the H command, it can also be set on a per file-type basis by creating a style with hex mode either **ON** or **OFF** in the os.set settings file.

2.3.5Hi-bit filter

The high-bit filter strips the high-bit from all characters above ASCII 127. It also handles the 0x8D character as a carriage-return thereby allowing easy viewing of Wordstar(tm) files. The high-bit filter can be toggled with the . command. It can also be set on a per file-type basis by creating a style with the high-bit filter either ${\bf ON}$ or ${\bf OFF}$ in the os.set settings file.

2.3.6Bookmarks

You can set a bookmark with the ${\bf Alt+0..9}$ commands. You can go to a previously set bookmark with the ${\bf Alt+G}$ command followed by the digit representing the bookmark you wish to jump to.

If you drop a bookmark that you had already set elsewhere then it will be reset to the new location. If you wish to clear a bookmark simply go to it and then set it again, this will clear it.

2.3.7Memory usage

 $\tt OnScreen/2$ normally only keeps one file loaded at a time (ie. the one you're looking at), this helps reduce memory usage. The κ command toggles between keeping all the files you have looked at loaded and just loading the one you are currently viewing.

Obviously keeping all files loaded speeds up switching between multiple loaded files but it also uses lots more memory. The default is to only keep the currently viewed file loaded.

2.3.8Searching

OnScreen/2 provides for searches which can be case-sensitive and case-insensitive and may be either forwards or backwards as you require. OnScreen/2 also provides for regular expression searches. Regular expressions are a powerful way of expressing a pattern that a search will match.

With regular expressions you can specify searches such as the following:-

d[ie]*lay

This will find text where it begins with a \mathbf{d} followed by an \mathbf{i} or an \mathbf{e} and zero or more occurrences of any character followed by \mathbf{lay} . This will find words such as \mathbf{delay} and $\mathbf{display}$.

Unlike typical UNIX based applications OnScreen's regular expressions are capable of being case-sensitive or case-insensitive.

For a case-sensitive search use the S, Alt+S or / commands, and for case-insensitive searches use the F, Alt+F or \backslash commands. The Alt+F and Alt+S commands search backwards.

OnScreen/2 starts searches either from the line the current selection is on, or from the top of the file if there is no selection active. You can clear the current selection with the ${\tt C}$ command.

The $\bf A$ and $\bf Ctrl+L$ commands repeat the previous search. All the parameters of the previous search are preserved with the exception of the setting of the regular expression toggle, which can be toggled on and off between repeat searches.

OnScreen/2 will scroll the display up, down, left or right as necessary to bring the matching text into view. Only the matching text will be highlighted not the entire line.

2.3.9Invoking a shell

You can invoke a shell by using the **Alt+O** command. This will take you to the current default shell for the operating system for which **OnScreen/2** has been compiled. You may execute any command you normally would at this shell with the exception of TSR's. You may find that in a DOS environment you have too little memory to do any serious work within this shell.

Use the EXIT command to return to OnScreen.

NB: TSR's do not affect the OS/2 or Win32 environments.

2.3.10Video mode support

OnScreen/2 supports whatever text mode you happend to be in. It does not have any built in facility to change text mode. You can change it with the mode command or a utility which may have been supplied with your video card.

Windows NT allows you to change the number of rows and columns of windowed sessions. It is not recommended that you change these settings while you are running OnScreen. It is also not recommended that you switch to fullscreen if you are using settings that would not be supported there.

OnScreen/2 cannot operate in less than 80 column mode.

2.3.11Invoking an editor

The Alt+E command invokes an editor on the current file. The editor must be set in the os.set file. A default editor can be assigned by defining a style from which all others inherit. SubStyles can prevent editing by setting the editor to blank.

eg. Editor =>

2.3.12Status Lines

The top and bottom lines of the display are status lines. The top line provides status information relating to the file currently being viewed.

The bottom status line displays the name of the program, the release version and the operating system it was compiled for. It also displays the copyright message and any error messages as well as serving as a location for menu type selection and line editing. On the far right it shows the current time in 12 hour format. The environment variable TZ must be set for the time to be displayed correctly. (eg. SET TZ=GMT)

There are 3 distinct formats for the top status line. They can be cycled through with the Alt+Z command.

Format 1.

47 | 1024 | + 10 | 12-12-1994 | 12:34pm |*c:\readme

- 1. Line number at top of display
- 2. Total number of lines in file
- 3. The current left column offset
- 4. The date the file was last modified
- 5. The time the file was last modified
- 6. An asterisk indicates that the file has been modified
- 7. The path and name of the displayed file

Format 2

47 | 18% | + 10 | 12-12-1994 | 12:34pm |*c:\readme

1 2 3 4 5 6 7

- 8. Line number at top of display
- 9. Percentage from the beginning of the file
- 10. The current left column offset
- 11. The date the file was last modified
- 12. The time the file was last modified
- 13.An asterisk indicates that the file has been modified
- 14. The path and name of the displayed file

Format 3.

02-04-1994 | 12:34pm | 48290 | 134 |*c:\readme

- 15. The date the file was last modified
- 16. The time the file was last modified
- 17. Total number of lines in file
- 18.Line number at top of display

19.An asterisk indicates that the file has been modified 20.The path and name of the displayed file

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2.3.13Command Keys

Key	Function
	Toggle highbit filter on/off
-, Ctrl+-	Dump current file
*	Refresh file
19	Quick select files 1 to 9
A, Ctrl+L	Search again. Preserves parameters of
	previous search.
В	Bring up buffer list
C	Clear current selection
D	Toggle external filter on/off
F, \	Case insensitive search forwards from the
~	current position.
G	Go to line number
H K	Toggle hex display mode on/off
L	Toggle keep files loaded on/off Toggle text with layout on/off
0	Toggles warning beeps on/off
R	Toggle regular expressions on/off for
10	searches.
s, /	Case sensitive search forwards from the
-,	current position.
W	Toggle word break
X, Q	Quit clearing screen
Left Arrow	Scroll right ten characters
Right Arrow	Scroll left ten characters
Up Arrow	Scroll the file down on line
Down Arrow	Scroll the file up one line
Ctrl+Left Arrow	Scroll the file left to column 0
PageUp	Scroll up one page
PageDown, Enter, Space	Scroll down one page
End	Go to the top of the file Go to the bottom of the file
ESC, Ctrl+X	Quit leaving display as is
Alt+09	Drop a bookmark
Alt+E	Invoke editor
Alt+F	Case insensitive search backwards from
	the current position.
Alt+G	Go to book mark
Alt+O	Go to shell
Alt+S	Case sensitive search backwards from the
	current position.
Alt+V, +	Bring up File Manager
Alt+X	Quit restoring screen
Alt+Z	Change top line display format Previous File
Ctrl+PageUp, Alt+P Ctrl+PageDown, Alt+N	Next File
F1	View users quide (os.man)
Shift+F1	View users guide (os.inf, OS/2 only)
?	Display keys help
F2	Change foreground text colour
Shift+F2	Change background text colour
F3	Change foreground selected text colour
Shift+F3	Change background selected text colour
F4	Change foreground status line text colour
Shift+F4	Change background status line text colour
F5	Change the BOLD text colour
F6	Change the UNDERLINED text colour
F7	Change the BOLD+UNDERLINED text colour
Tab	Increase the Tab width
Shift+Tab	Decrease the Tab width
Ctrl+Tab Ctrl+F	Toggle Tab expansion on/off Display full file name on status line
Ctrl+S	Save current settings
CCTTIO	Dave Carreile Decerings

2.4 Buffer list

2.4.1Commands

You control the OnScreen/2 Buffer List by pressing keys or combinations of keys which correspond to the OnScreen/2 Buffer List commands.

The key combinations associated with specific commands are preprogrammed into the OnScreen/2 Buffer List and cannot be changed at this time.

2.4.2Command Keys

Key Function

Up Arrow Move up one file
Down Arrow Move down one file
Enter Select current file

Escape Return back to previously viewed file

2.5 Line Editor

2.5.1Command keys

Key
Up Arrow
Select previous item from the history.
Down Arrow
Select next item from the history.
Left Arrow
Move one character to the left
Right Arrow
Move to beginning of line

Home Move to beginning of line

End Move to end of line

Backspace Delete character preceding cursor
Del Delete character under cursor

Enter Finished editing Escape Cancel operation

The line editor provides for history recall of previously entered text. This feature is not always enabled, but when it is you can recall previously entered text by pressing the up arrow key.

After moving up in the history you can move back down again by using the down arrow key. The number of elements a history can hold is only limited by available memory.

2.6 File Manager

2.6.1Commands

You control the OnScreen/2 File Manager by pressing keys or combinations of keys which correspond to the OnScreen/2 File Manager commands.

The key combinations associated with specific commands are preprogrammed into the OnScreen/2 File Manager and cannot be changed at this time.

2.6.2Command Keys

Key	Function
Up Arrow	Move up one file
Down Arrow	Move down one file
Left Arrow	Move one column to the left
Right Arrow	Move one column to the right
Home	Move to top left. If already at top left then
	move to first file
End	Move to bottom right. If already at bottom
	right then move to last file
Tab	Move to next matching file
Backspace	Move to previously matching file
Enter	Select current file
Escape	Return to previously viewed file or quit
Ctrl+AZ	Change current disk
/	Bring up File Manager menu
Alt+A	Quit leaving the screen as it is
Alt+C	Copy the currently selected file
Alt+D	Delete the currently selected file
Alt+E	Edit the currently selected file
Alt+F	Change filespec filter
Alt+H	Change directory
Alt+K	Make directory
Alt+M	Move the currently selected file
Alt+Q	Quit clearing the screen
Alt+R	Rename the currently selected file
Alt+S	Sort directory listing
Alt+V	View the currently selected file
Alt+X	Quit restoring the screen
Space	Toggle the file tag. (not yet available)

The File Manager provides for quick file and directory selection by allowing you to type in a prefix for the file you are trying to select.

For example if you are trying to select the file ${\bf custinv.cpp}$ you could type ${\bf cus}$ and this will move the file selection bar to the first file with the prefix ${\bf cus}$.

The Tab and Backspace keys move you forwards and backwards respectively. Holding down the shift key puts you in directory select mode as opposed to file select mode.

3 Configuration

OnScreen's configuration can be controlled from the keyboard or from the os.set file. The preferred method is to use the os.set file as this is the way all **OnScreen/2** settings will be stored in the future.

If you are viewing a file for which a style applies and make changes to **OnScreen/2** settings using the command keys, you are only affecting that style. The bottom status line will indicate that a change has been made to a style as against a global change.

Changes made to a style using the command keys are not permanent. These changes are lost once the **OnScreen/2** session is terminated. You will have to edit the os.set file to affect those changes permanently.

Future releases of OnScreen/2 will store global or style specific changes to the os.set file and the os.ini file will be removed.

3.1 Styles

The os.set file allows for the specification of one or more user defined styles which can be associated with specific file extensions. Comments in a set file begin with a ; and end at eol.

This declares a style called C++ which is associated with files with the extensions .cpp .cxx .hxx .hpp and inherits from the styles Default and C. A style does not have to inherit from other styles.

The extensions list can also be a single *, which indicates that this is a default style which will apply to all files which have either no extension or an extension for which a specific style has not been defined. If you specify this default style it should appear as the first style in the os.set file.

See the supplied os.set file for complete examples.

3.2 Configurable items

BackGndColour The background colour of the default text

The foreground colour of bold text BoldColour

BoldUnderlineColour The foreground colour of bold+underlined text CaseConvert Convert keywords to the case used in the os.set

file

CaseSensitive Specify language case sensitivity CloseComment The ending for a multiline comment ClosePreprocessor The ending for a preprocessor command The foreground colour of comment text CommentColour

CommentColumn The starting column for single line comments

(0=none)

DisplayMode The display mode, either TEXT or HEX The editor for this file type. (eg. b2.exe) Editor Escape The character which precedes a string delimiter

within a string

ExpandTabs Expand tabs, either ON or OFF

View the contents of the file through this ExternalFilter

filter.

ForeGndColour The foreground colour of the default text HighBitFilter Highbit filter, either ON or OFF The foreground colour of identifiers TdentColour LineContinuation The line continuation character for the

preprocessor

NumberColour The foreground colour of numbers NumberPrefix Prefixes which begin a valid number OpenComment The beginning of a multiline comment OpenPreprocessor The beginning of a preprocessor statement PreprocessorColour The foreground colour of preprocessor

statements

A reserved keyword Reserved

ReservedColour The foreground colour of reserved keywords SelectedBackGndColour
SelectedForeGndColour
The background colour of select text
SingleLineComment
The beginning of a single line comment

Characters which are to recognized as symbols Symbols

SymbolsColour The foreground colour of symbols The characters which enclose strings Strings StringColour The foreground colour of strings

The width of a tab TabWidth

TextWithLayout Text with layout, either ON or OFF

The format to use for the top status line, 1 2 TopLineFormat

or 3

UnderlineColour The foreground colour of underlined text

3.3 Colours

Black, Blue, Green, Cyan, Red, Magenta, Brown, LightGray, DarkGray, LightBlue, LightGreen, LightCyan, LightRed, LightMagenta, Yellow and White.