

TransEra

HTBasic for Windows Release Notes
Release 8.3
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This file contains information regarding changes and additions that have been made since the last printing of the manuals.

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A-Manual Corrections:

A.1-Installing and Using Manual:

- Page 1-9 The -fn switch example should read:
-fn "Courier New",-12,255
It is important to note the font name is case and space sensitive.
- Page 1-10 The default workspace size is 16 megabytes.
- Page 1-11 GESCAPE CRT Code table should read:
Code Operation
46 Turn the Control toolbar Off
47 Turn the Control toolbar On
50 Remove the menu bar
51 Restore the menu bar
64 Filename in titlebar on
65 Filename in titlebar off
- Page 3-7 GESCAPE CRT example should read:
GESCAPE CRT,46 !turns the Control Toolbar off
GESCAPE CRT,47 !turns the Control Toolbar on
- Page 6-5 The example for WIN-PRINT control register 117 should read:
CONTROL Isc,117;Value
- Page 6-8 Interrupts are fully supported by the SERIAL & SERIAL32 drivers.
- Page 8-1 ARROW KEYS are not a supported input source for HTBasic version 8.

A.2-User's Guide

- Page 4-34 & 4-36 ARROW KEYS are not a supported input source for HTBasic version 8.
- Page 9-14 Bit 0 of SERIAL32 control register 5 should read: 1=Tie DTR high,
0=Use DTR in handshaking
- Page 9-18 WRITEIO register 2 is not supported with the SERIAL or SERIAL32 driver.

- Page 11-4 The Exported DISP function declaration should read:
void Disp(char * Msg,BOOL opt=1);

The example of the command in operation is:

```
Disp("This is the HTBasic DISP line",(1))
```

```
Disp("This is the HTBasic message line",(0))
```

B-Repairs made to 8.2 for 8.3

B.1-Interface****

- 1) It is now possible to SAVE and GET programs without line numbers. This is an option on the Save As dialog box.
- 2) It is now possible to select a section of code and using the Edit|Comment menu item, comment out an entire section of code.
- 3) An environment setting for "running with errors" has been added. With this turned off, a warning dialog box appears when attempting to run a program with syntax errors. With this setting on, programs with syntax errors may still be run.
- 4) Opening a non PROG or ASCII file now gives a warning when more than 25 errors are encountered.
- 5) The change MSI dialog has been changed to allow direct keyboard entry.
- 6) RENumber has been added as an option to the Edit menu
- 7) View|File Statistics now display the number of lines with syntax errors.
- 8) Wait cursors now appear while the program is doing intense editor related operations such as opening, saving, etc.
- 9) Ctrl+Alt+D now appears as the assigned accelerator key for the Device setup dialog. The Device setup dialog is now accessed through the Tools menu item.
- 10) Accelerator key Ctrl + E was added to toggle Edit mode on and off.
- 11) Alt-F6 is now properly assigned in KBD CMODE ON when using Legacy Keyboard mode.

- 12) Clicking the toggle edit mode button while the child window is minimized no longer causes an application error to occur.
- 13) A history buffer was added to the Find, and Replace dialogs.
- 14) Some editor keyword coloring was corrected.
- 15) Corrected a problem with DELEting large blocks of code.
- 16) The general speed of the editor has been increased.
- 17) Speed in scrolling in very large programs has been greatly increased.
- 18) The -geometry command line startup switch has been fixed to allow dimensions less than 100.
- 19) The Next Error/Previous Error tooltip text messages were updated to correctly describe their functions.
- 20) Opening a file from the MRU when there was no child window present did not go directly to edit mode. This has been fixed.
- 21) The print program function has been repaired to properly handle large files, and selected text.
- 22) Cutting and pasting a line with a bookmark, no longer causes an application error.
- 23) Dropping a file onto the HTBasic.exe or on to a shortcut to HTBasic.exe for opening files is now supported. Also dropping a file onto the open editor opens the file into the editor. Dropping a PROG file onto an open output window opens and runs the program.
- 24) It is now impossible to close HTBasic while it is saving a program. The cursor will remain a wait cursor throughout all saving/storing, and opening operations.
- 25) Previously if PEN 0 had been modified, the automatic color inverting for DUMP GRAPHICS would not take place.
- 26) The proper error message is now displayed when a line length exceeds the 256 character limit. Previously this would cause an application error.

- 27) Using the F1 key for help access now properly leaves the cursor on the same line in the editor while accessing the help window.
- 28) Access to user defined help is now properly permitted.
- 29) Entering a non-existent program name in the file open dialog box no longer causes an application error.
- 30) Subs may now be deleted by highlighting them. If there are comments after the sub, they must be also included in the selection. Previously it was only possible to delete subs in this way if there were no comments surrounding the sub.
- 31) After performing a GLOAD to the screen, a DUMP GRAPHICS would produce a solid black output. This has been repaired to properly DUMP GRAPHICS of GLOADED screens.
- 32) GESCAPE CRT,52 would remove the status bar when locking the HTBasic frame. It now only locks the frame.
- 33) The set indent Dialog box now properly keeps track of Default vs. User Specify mode.

B.2-Drivers****

- 1) New drivers include:
 - SERIAL - Support for GUI control of the SERIAL bus
 - TABLET - Support for use of GRAPHICS INPUT ISc,"TABLET"
 - GPIO600 - Support for the TransEra Model 600 GPIO card
 - GPIO650 - Support for the TransEra Model 650 GPIO cardNOTE: Under Windows 2000 interrupts are not yet supported with either of the new GPIO drivers.
- 2) Using the SERIAL device, it is now possible to load any COM port. Previously this was limited to COM1 - COM9. Also, it is now possible to load as many ports as ISC's available.
- 3) The ON INTR functionality added to the SERIAL32 driver caused it to dramatically increase processor demand. This has been repaired so the driver only accesses the processor as needed.
- 4) The READIO & WRITEIO registers for the SERIAL32 driver have been

clarified.

- 5) SERIAL32 driver was updated to allow Ctrl+Break or Clear I/O in all situations.
- 6) GPIB driver updated to properly detect device interrupts.
- 7) The SICL I/O Libraries included for using the TransEra Model 900 GPIB card under Windows NT & 2000 with the HPIBS driver have been updated to Agilent's revision J.02.02.
- 8) Hardware timeouts with the GPIBNI driver were incorrectly returning error 150 when there was a device powered on or connected to the card. This now properly returns error 168.
- 9) GPIBNI driver updated for faster PASS CONTROL with some NI compatible GPIB cards.
- 10) GPIBNI driver updated to properly use the USING % and -K IMAGE specifiers.
- 11) PLOTTER IS HPGL updated to account for an obscure rounding problem.
- 12) DUMP GRAPHICS via the GIF driver now properly inverts the background color after PEN 0 is modified.
- 13) The following control register has been added to the WIN-PRINT driver allowing the underline option in printed output:
CONTROL 10,116;4 ! Underline
CONTROL 10,116;5 ! Underline Italic
CONTROL 10,116;6 ! Bold Underline
CONTROL 10,116;7 ! Bold Italic Underline
- 14) The PS driver has been updated to support GFONT information on labels. The driver supports the following fonts:
Helvetica
Helvetica-Oblique
Helvetica-Bold
Helvetica-BoldOblique
Courier
Courier-Oblique
Courier-Bold
Courier-BoldOblique

Times-Roman
Times-Italic
Times-Bold
Times-BoldItalic

B.3-Internal Operation****

- 1) LONG variables are now supported in FOR loops and all ENTER statements.
- 2) It is now possible to initialize a variable when it is declared. i.e. INTEGER I=13
- 3) STATIC variables now support Complex number declaration during initialization.
- 4) Variables not specifically declared and set to values larger than 65535 now evaluate properly as REAL or LONG variables.
- 5) XREF now differentiates array variables from standard variables.
- 6) Invoking HELP with three keywords generated a syntax error. This has been fixed.
- 7) The CAPS LOCK status, STATUS (KBD,0) now properly reports the state of the CAPS LOCK key.
- 8) The CAT command no longer shows an extra file in its listing if a temporary file is in the directory.
- 9) Using the CAT command with spaces in the command now properly CATalogs the specified directory.
- 10) CONFIGURE LONGCATDATES has been added as an option to control how many digits of the year are displayed in a CAT. Previously four digits would be displayed if LONGFILENAMES was on. Using CONFIGURE LONGCATDATES ON, or the Run Environment option produces a four-digit year. CONFIGURE LONGCATDATES OFF produces only a two-digit year.
- 11) TRANSFER from a file to a buffer was repaired to properly accept the ON END option.
- 12) TRANSFER no longer hangs if data transferred from a file is smaller than the

receiving buffer.

- 13) Inbound TRANSFER was not terminating when an EOI signal was sent from the source. This has been repaired to properly detect the EOI signal.
- 14) Using RETURN 1 from MAIN now properly reports an error. Previously this would cause an application error.
- 15) Font information passed to the application using the ñfn switch is only written to the registry if the Editor Environment font dialog is updated.
- 16) When working with KBD CMODE on, ALPHA PEN now properly updates the softkey colors.
- 17) The Alpha line height command, CONTROL CRT,13 has been updated to work in all situations. Previously inaccurate results were shown when working with a small alpha height.
- 18) Using CHR\$(129) for inverse video now does not effect the softkey line. Previously this would cause improper colors to appear in the region to the right and below the softkeys.
- 19) Using LOADSUB to LOAD a String Function from an older PROG type is now fully supported.
- 20) Colors now map properly in color map mode when using a GFONT.
- 21) Improper assignment of LONG variables now properly produces error 19, Improper value or out of range.
- 22) The ENTER command has been expanded to properly handle ENTERing into LONG variables.
- 23) An extra pixel was being displayed when HTBasic was idle and the TRACK CRT cross-hair was under the mouse pointer. This has been repaired.
- 24) It is again possible to scroll through displayed graphics and text while HTBasic is at a WAIT.
- 25) SET TIMEDATE TIME was updated to properly interact with the automatic updating of time based upon daylight savings time. Previously this would be off by one hour while not in daylight savings if Windows was set to automatically

update time based upon daylight savings.

B.4- **Debugger**

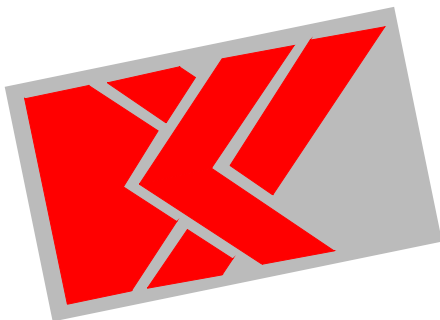
- 1) Breakpoint dialogs now remember their last settings. Variable entry is set to top of list.
- 2) The calling line number has been added to the Call Stack debug window.
- 3) When in Debug Paused state, clicking on Debug Run no longer stops at line 10. It properly runs through to the first breakpoint.
- 4) When attempting to edit the program while paused in the debugger now properly stops debug first.
- 5) During Debug, the status bar now reports the status as either Debug Paused, or Debug Running.
- 6) The order of the listboxes for Breakpoints dialogs have been changed to first list the sub and then the variable.
- 7) While running the debugger, the runlight now indicates either debug run, or debug paused.

B.5- **Basic Plus**

- 1) BPLUS has been updated to allow focus control between Widgets and the main Basic window. Using the FOCUS attribute it is possible to change focus to a particular widget or to the Basic window. A value of 0 gives focus to the specified widget, a value of 1 moves focus from the Widget to the Basic window.
- 2) Basic PLUS has been updated so TAB stops no longer access Widget labels.
- 3) The filedialog has been updated to properly allow Screen Builder modification.
- 4) With Basic Plus loaded, there is no longer a performance hit when using SET PEN commands.
- 5) Corrected a problem under Windows 95 when closing HTBasic after using Basic Plus

B.6-DLL Toolkit****

- 1) The DLL Loader now supports array elements in the parameter list. Previously it was only possible to pass the entire array.
- 2) It is now possible to pass Basic specific strings such as KBD\$ and ERRM\$ to a dll via the DLL toolkit.
- 3) The ability to output to either the DISP or Message line with the HTBDisp Dll has been added.
- 4) The HTBFileopen dll was enhanced to allow for multiple file selection. It was also modified to ensure that it will always appear in the foreground each time it is called.
- 5) The HTBasicrevenge dll has been updated to work properly on 800x600 resolution screens.
- 6) The HTBLinechart dll sample has been updated to better illustrate its capabilities.
- 7) DLLs made into CSUBs using the CSUB toolkit that used non system modal message boxes could appear behind the Basic window. To ensure they appear in front of the Basic window, the CSUB will need to be re-compiled with the following code which provides the MessageBox function with a handle to the parent window.
HWND GetHandle()
{ HANDLE hBasic = LoadLibrary("htbwin.exe");
HWND * phBasicWnd = (HWND*)GetProcAddress(hBasic,"g_hBasicFrameWindow");
return(*phBasicWnd);
}
- 8) The HTBLink DLL sample was updated to prevent problems when exiting the Client sample program.



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