TracePlus32/Winsock
Version 3.10 (November 1996)

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Sample Log File

We have included a trace log file that was generated using the new *Export* feature, so that you can see what this feature provides. To load the sample log file, select **Import** from the **Trace** menu, then choose SAMPLE.RDF (it will be in the same directory as TracePlus). Be sure to view the *PC Configuration* (This log was generated from the author's machine).

Using TracePlus32/Winsock with Winsock 2.0

TracePlus can trace applications linked with either WS2_32.DLL or WINSOCK.DLL. If the application is linked with WS2_32.DLL, TracePlus will trace the Winsock 1.1 API subset of Winsock 2.0. A free patch containing the new Winsock 2.0 functionality will be available to all customers who purchase TracePlus32/Winsock version 3.

Using TracePlus32/Winsock with Microsoft Internet Explorer 3.0

To trace Microsoft Internet Explorer 3.0 do the following:

1. Select the **Filters** item from the **Trace** menu.
2. Check the box next to the words **Launch Application below**.
3. Press *Ok* to close the **Filters** dialog box.
4. Press the **Start** button on the toolbar, or select **Start** from the **Trace** menu.
5. The "Launch Application" dialog will appear. Press **Browse**, and locate Internet Explorer .EXE file, i.e. IEXPLORE.EXE (It usually is in the \Microsoft Internet directory). Double-click on it The filename will appear in the field titled *Application*. Press *Ok* to

launch the Internet Explorer.

The "Trace processes started from desktop" option in the **Filters** dialog box does not work with Microsoft Internet Explorer 3.0.

Using TracePlus32 with Visual Basic 4.00

To use TracePlus32 to trace Visual Basic 4.00 applications in DESIGN MODE, do the following:

1. Select the **Filters** item from the **Trace** menu.
2. Check the box next to the words *Launch application below*.
3. Press *Ok* to close the **Filters** dialog box.
4. Press the **Start** button on the toolbar, or select **Start** from the **Trace** menu.
5. The "Launch Application" dialog will appear. Press **Browse**, and locate Internet Explorer .EXE file, i.e. VB32.EXE (It usually is in the \VB40 directory). Double-click on it The filename will appear in the field titled **Application**. Press *Ok* to launch Visual Basic 4.0.

Connection problems when TracePlus is running

There is a checkbox in the **Options** dialog box on the **Trace** menu labeled "Display open socket status". This detemines whether **TracePlus** will display a list of open sockets in the **View Winsock Information** dialog box.

The method that **TracePlus** uses to determine the status of a socket is legal according to the Winsock specification, but causes problems with some TCP/IP stacks. Unchecking this feature will disable this feature.

Special Notes for the 32 bit version of TracePlus:

• 32 bit versions of TracePlus use the standard Microsoft defined debugging interface for Win32 applications. The Microsoft interface does not permit detaching from a process after debugging has started. Therefore, if TracePlus is terminated, it will also terminate all processes being traced. Stopping the trace will not detach TracePlus from a process.

Be sure that if you are tracing a server application, leave the TracePlus32 application running after stopping the trace, or terminate the server application, and restart it (be sure that TracePlus32 is not running or the trace is stopped before starting the server application again).

32 bit versions of TracePlus have an option called Trace Processes started from Desktop. This option is found in the **Filters** dialog box on the **Trace** menu. This feature will automatically trace an application under two conditions:

• The application has a main window (i.e., not a Win32 console application).

• The trace will be initiated at the point where the main window receives the WM_CREATE message. This means that any API calls made before this message is received will not be traced.

The procedure for tracing 32 bit applications launched from the desktop is as follows:

1. Make sure that a checkmark is next to the item Trace processes started from desktop in the Filters dialog box.

2. Unselect the option *Launch specified application*

3. Press *OK* (not *Cancel)* to close the **Filters** dialog box.

4. Click on the *Start* button on the toolbar, or press Ctrl+S.

5. Launch the Win32 application that you want to trace. Make sure that it creates a main window.

Compatibility

TracePlus32/WINSOCK is fully compliant with the Windows Sockets Specification version 1.1, and should therefore work with Winsock libraries from any vendor that adheres to the specification.

Product Modifications

Drag and Drop: Single files can be dragged from the Windows File Manager and dropped on *TracePlus32* window or the *TracePlus32* icon. The specified .EXE file will be launched when the trace is started.

The public domain **WINSOCK.HLP** is included with *TracePlus32*/Winsock and has hypertext links to the API functions that appear in the trace log. By pressing SHIFT+F1 in the main window, or pressing the CALL button in the Details dialog box, you can get detailed help on that Winsock function.

Send and receive buffer display options can be specified by pressing the *Buffers...* button in the Filters dialog box.

Application notes

Tracing applications with large send and receive buffers: *TracePlus32* will consume much more memory if you are tracing applications that send and receive data in large packet sizes (2048, 4096, etc.). To minimize memory usage, press the *Advanced...* button in the **Filters** dialog box. Set a limit for buffer sizes, or turn off the buffer display altogether. Alternatively, you can set the trace buffer size to a smaller value, typically one half of the current buffer size.

Level of detail settings (Options dialog box): Remember that this option does not change the format of the *TracePlus32* main window. This options affects either the **File** or **Printer** output options.

Setup will fail creating the *TracePlus32/Winsock* program group if you have more than 38 groups.