

- ▶ Link Check
- ▶ Shareware Version 5.0 - April 1996
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Contents for Link Check Help

To learn how to use Help, please press F1.

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Introduction

Link Check is a suite of three (3) diagnostic programs which allow the user to examine different areas of the system.

Link Check itself enables the user to view the links between an executable file and the modules it requires to run on the system. This tool is useful for analyzing those "**Cannot find (filename) or one of its components**" system error messages.

Memory Check allows the user to view, load and unload modules currently in memory. You may also view the current status of memory, including the amount of free memory left.

Function Check allows the user to view actual function calls inside modules. This tool is useful for analyzing those "**Call to Undefined Dynalink**" system error messages. All three programs show version and file information on any of the modules for identification purposes as well as interacting with each other. Reporting facilities are also included.



System Requirements and Uninstall

Link Check requires Windows 3.1* or later or Windows for Workgroups 3.11*.* See Trademarks

This package consists of the following files:

- 1) WLCHECK.EXE **Link Check** itself
- 2) WLCHECK.HLP Link Check Help file
- 3) WMCHECK.EXE **Memory Check** component of Link Check
- 4) WFCHECK.EXE **Function Check** component of Link Check
- 5) WLCCOMM.DLL Common Routines for all of the Link Check components
- 6) FILE_ID.DIZ File for Bulletin Board operators
- 7) README.TXT Read Me file

To **uninstall Link Check** delete the following files:

- 1) WLCHECK.EXE **Link Check** itself
- 2) WLCHECK.HLP Link Check Help file
- 3) WLCHECK.INI Created by Link Check in the Windows directory
- 4) WMCHECK.EXE **Memory Check** component of Link Check
- 5) WMCHECK.INI Created by Memory Check in the Windows directory
- 6) WFCHECK.EXE **Function Check** component of Link Check
- 7) WFCHECK.INI Created by Function Check in the Windows directory
- 8) WLCCOMM.DLL Common Routines for all of the Link Check components
- 9) FILE_ID.DIZ File for Bulletin Board operators
- 10) README.TXT Read Me file



Command Line Interface and Drag & Drop

Link Check accepts a file name as a command line parameter.

Syntax: **WLCHECK** Filename

Link Check also supports **Drag and Drop**. You may drag a file to Link Check and drop it in.



Keyboard Support

The main window supports the keyboard as well as the mouse.

Key actions in the main window are as follows:

Tab	Switch between the main window and the Version/Key windows.
Enter	Expand/Collapse currently selected module.
Spacebar	Select a module.
Arrow keys	Navigate up/down the list of modules or Version/Key windows.
Control+O	Open executable for examination.
Control+V	Display Version Information window.
Control+K	Display Key window.
Control+C	Create Version report.
Control+P	Print Version report.
Control+R	Run executable.
Control+X	Expand all levels.
Control+L	Expand one more level.
F1	View Help.
F2	Check function calls in the selected module.
F3	Check currently loaded modules in RAM (memory).
F5	Collapse all open links.
Alt+F4	Quit Link Check.



Menu Options

Please select one of the following:

File:

[Open Executable](#)

[Create Version Report](#)

[Print Version Report](#)

[Run Executable](#)

[Run Executable with Parameters](#)

[Exit](#)

Options:

[Display Version Information](#)

[Display Key to Symbols](#)

[Check Function Calls](#)

[Check All Modules in Memory](#)

[Expand All Levels](#)

[Expand One More Level](#)

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Preferences:

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Help:

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Dialog Boxes

Please select one of the following:

Run Executable with Parameters dialog



Run Executable with Parameters Dialog

This dialog box is invoked from the **Run Executable with Parameters** menu option under the **File** menu.

In this dialog, enter any extra parameters that you would like to pass on to the program about to be executed and click on **OK**.

Do not include the program name in the field, only the parameters.

Link Check will precede the parameters with the program name before attempting to execute it.

Click on **Cancel** to return to the main window without any further action.



Guide to the Main Window

Use the **Open Executable** menu option under **File** to open up a module for examination.

The main window shows the links between the opened executable and the modules that it requires to be present on the system.

If you select any one of the shown modules and **double-click** it with the mouse, **Link Check** reveals further links for the selected module.

To identify any particular module, select it with the mouse and choose the **Display Version Information** menu option under **Options**. A version information window will appear at the bottom of the main window.

Each module is prefixed with a symbol identifying the module type. To find out what these symbols mean, please select the **Display Key to Symbols** menu option under **Options**. The key window will appear at the bottom of the main window.

To hide the version or the key windows, please re-select the same menu items as for invoking them. Alternatively, **right-click** with the mouse on top of these windows and select the **Hide** menu option from the popup menu that follows.

As a short cut, you may also **right-click** on the main window to access the options in the **Options** menu.

If you prefer to use the keyboard, please see [Keyboard Support](#) for the key assignments.



File: Open Executable

Click on this menu option or on the short cut on the Toolbar to open an executable file for examination.



File: Open Previous Module

Click on this menu option to re-open a recently used module.



File: Open Previous Module

Click on this menu option to re-open a recently used module.



File: Open Previous Module

Click on this menu option to re-open a recently used module.



File: Open Previous Module

Click on this menu option to re-open a recently used module.



File: Create Version Report

Click on this menu option or click on the short cut on the Toolbar to create a report listing all of the modules currently shown in the main window with dates, times, sizes and version numbers.

Select [Sample Version Report](#) to view a sample report.



File: Print Version Report

Click on this menu option or click on the short cut on the Toolbar to print a report listing all of the modules currently shown in the main window with dates, times, sizes and version numbers.

Select Sample Version Report to view a sample report.



Sample Version Report

Sample output:

Link Check Version Report

For: C:\MYPROGS\MYPROG.EXE

Filename	Date	Time	Size	File Ver	Prod Ver	Path
MYPROG.EXE	03/12/95	03:10	123456	1.23.456	1.23	C:\
MYPROGS						
GDI.EXE	01/11/93	03:11	220800	3.11	3.11	C:\
WINDOWS\SYSTEM						
USER.EXE	21/07/95	03:02	264096	3.11	3.11	C:\
WINDOWS\SYSTEM						
KEYBOARD.DRV	01/11/93	03:11	7568	3.10	3.10	C:\
WINDOWS\SYSTEM						
COMMDLG.DLL	01/11/93	03:11	97936	3.11	3.11	C:\
WINDOWS\SYSTEM						
SHELL.DLL	01/11/93	03:11	40944	3.11	3.11	C:\
WINDOWS\SYSTEM						
VER.DLL	01/11/93	03:11	9696	3.11	3.11	C:\
WINDOWS\SYSTEM						
CTL3DV2.DLL	15/06/95	00:00	21648	2.04	2,0,4,0	C:\
WINDOWS\SYSTEM						

8 files listed.



File: Run Executable

Click on this menu option to run the currently loaded executable file.



File: Run Executable with Parameters

Click on this menu option to run the currently loaded executable file with parameters.

The Run Executable with Parameters dialog will pop up for you to enter the parameters.

 **File: Exit**

Click on this menu option or click on the short cut on the Toolbar to exit **Link Check**.



Options: Display Version Information

Click on this menu option to show the **Version window** at the bottom of the main window.

This window will show version and file details of the selected module and can also be invoked from the popup menu by **right-clicking** with the mouse anywhere over the main window.

You may hide this window either by **right-clicking** on the mouse whilst over this window or by re-selecting the same menu option.



Options: Display Key to Symbols

Click on this menu option to show the **Key window** at the bottom of the main window.

This window will show an explanation to the symbols used in the main window and can also be invoked from the popup menu by **right-clicking** with the mouse anywhere over the main window.

You may hide this window either by **right-clicking** on the mouse whilst over this window or by re-selecting the same menu option.



Options: Check Function Calls

Click on this menu option or on the short cut on the Toolbar to launch **Function Check (WFCHECK.EXE)** component of **Link Check**.

You can examine all of the function calls in the module as well as the ones that it requires to be present in the system to run properly.

This menu option can also be invoked by **right-clicking** with the mouse anywhere in the main window or by pressing **F2**.



Options: Check All Modules in Memory

Click on this menu option or on the short cut on the Toolbar to launch **Memory Check (WMCHECK.EXE)** component of **Link Check**.

You can examine all of the modules currently loaded in memory.

This menu option can also be invoked by **right-clicking** with the mouse anywhere in the main window or by pressing **F3**.



Options: Expand All Levels

Click on this menu option to show every single module required by the executable.



Options: Expand One More Level

Click on this menu option to expand the current level throughout the Main Window.

When a module is first opened, the first level of linked modules are shown. A second level of modules can be seen if any one of the first level modules are expanded by **double-clicking** on the module, and so on for up to 256 levels.

Rather than having to select each first level module for expansion, you can select just one and use this menu option to expand all of the modules on the same level as the selected one. The same holds true for any level.

Note that only the modules on the same level and underneath get expanded, so select the topmost module if you want to see the whole level expanded.



Options: Collapse All

Click on this menu option to collapse all open links of the loaded module.

This menu option is equivalent to re-opening the executable file.



Preferences: Show Lowercase File Names

Click on this menu option to draw the file names in the main window in lowercase or as is.

If this menu option is checked, then the file names will be in lowercase, otherwise as is.



Preferences: Draw Thick Lines


Click on this menu option to draw the connecting modules with either thick or thin lines.


If this menu option is checked, then the lines will be thick, otherwise thin.



Preferences: Show Modules Currently in Memory

Click on this menu option to show the status of each module whether loaded in memory or not.

If a  symbol appears next to the module name then the module is loaded in memory.

If a  symbol appears next to the module name then the module is **not** loaded in memory.



Preferences: Show Optional Modules

Click on this menu option to make **Link Check** scan the currently open executable for the string **.DLL** to find out if there are any references to some external .DLLs embedded in the code.

Any entries found are shown in Red and these modules are **not** necessarily required by the system for the executable to work properly.



Preferences: Show Toolbar Tips

Use this menu option to turn the Toolbar button explanations/hints on and off.



Preferences: Show Toolbar

Use this menu option to show or hide the Toolbar.



Preferences: Show Status Bar

Use this menu option to show or hide the Status Bar.



Preferences: Save Settings Now

Select this menu option if you want **Link Check** to save the current position and size of the main window plus all other settings now to **WLCHECK.INI**.

When you restart **Link Check**, it will reposition, size and configure itself to the saved values.



Preferences: Save Settings on Exit

Select this menu option if you want **Link Check** to save the current position and size of the main window plus all other settings when you exit the program to **WLCHECK.INI**.

When you restart **Link Check**, it will reposition, size and configure itself to the saved values.



Toolbar

The Toolbar contains the following short cuts:



Open Executable



Create Version Report



Print Version Report



Check Function Calls



Check All Modules in Memory



Exit Program



Help Contents



Help: Contents

This menu item shows the Contents page of the help file. Alternatively, click on the short cut on the Toolbar.



Help: Search for Help on

This menu item shows the Search dialog box for the help file.



Help: How to Use Help

This menu item shows how to use Help.



Help: How to Register/Order

This menu item shows how you can order a copy of the registered version of Link Check.



Help: About Link Check

Use this dialog box to view the copyright information for this program.



Future Versions

Registered users will be able to upgrade to future versions of **Link Check** on much reduced prices, if not for free in some cases.

To find out about the latest status or about the current version of **Link Check** please contact Karri Software Ltd. via CompuServe (**100422,3521**) or by fax (**+44**) (**0**)**181 998 1785** and we will send you the latest news.

As of April 1996, there are definite plans for a future version of **Link Check**.



How to Register/Order

Please select one of the following:

[Order by CompuServe](#)

[Order by Fax or by Mail](#)

Price: 39 US Dollars

Please note that the registered version of **Link Check** also includes the native versions for Windows 95* and Windows NT*.

* [See Trademarks](#)



Order via CompuServe

To have your registration added to your CompuServe bill, **GO SWREG** and follow the instructions.

Important: If you are a VAT registered company residing in the European Union (EU), please use the registration ID **10094** and send your company VAT registration number to Karri Software Ltd (CompuServe ID 100422,3521).

For all other cases, please use the registration ID **7160**.

VAT = Value Added Tax



Order by Fax or by Mail

Please select one of the following:

VAT Registered Companies in the European Union (EU)
All Others

VAT = Value Added Tax

Link Check 5.0 Order Form/Invoice

Print this form by using the **File** menu option followed by the **Print Topic** menu option at the top of this page.

Send this form with a cheque, cash or international postal money order payable to Karri Software Limited, or **fax credit card orders only**, to:

Karri Software Limited, 10 Regency Close, Woodville Gardens, Ealing, London W5 2LP, England.

Fax: (+44) (0)181 998 1785

Payments can be in English pounds or US Dollars and **prices include shipping and handling fees**. Only 3.5 inch diskettes will be sent.

A **Site License** for **Link Check** entitles an organisation to receive one copy of the software and duplicate it for the specified number of copies.

Link Check Single Copy : _____ copies at 20 pounds / \$34 each: _____

Link Check Site License :

2 - 10 computers : _____ users at 17 pounds / \$29 each: _____
11 - 25 computers : _____ users at 14 pounds / \$24 each: _____
26 - 50 computers : _____ users at 11 pounds / \$19 each: _____
51 - 100 computers : _____ users at 8 pounds / \$14 each: _____
101+ computers : _____ users at 5 pounds / \$ 9 each: _____

TOTAL: _____

Name: _____ Date: _____

Company: _____

Address: _____

Postcode/Zip: _____ Country: _____

Telephone: _____ Facsimile: _____

VAT Reg. Number: _____ Email: _____

Where obtained: _____

Please charge my Visa __ Mastercard __ Access __ EuroCard __ (please tick one):

Card Number: _____ Exp. Date: _____

Signature: _____

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Payments can be in English pounds or US Dollars and **prices include VAT, shipping and handling fees**. Only 3.5 inch diskettes will be sent.

A **Site License** for **Link Check** entitles an organisation to receive one copy of the software and duplicate it for the specified number of copies.

Link Check Single Copy : _____ copies at 24 pounds / \$39 each: _____

Link Check Site License :

2 - 10 computers : _____ users at 21 pounds / \$35 each: _____
11 - 25 computers : _____ users at 18 pounds / \$30 each: _____
26 - 50 computers : _____ users at 15 pounds / \$25 each: _____
51 - 100 computers : _____ users at 12 pounds / \$20 each: _____
101+ computers : _____ users at 9 pounds / \$15 each: _____

TOTAL: _____

Name: _____ Date: _____

Company: _____

Address: _____

Postcode/Zip: _____ Country: _____

Telephone: _____ Facsimile: _____

Electronic Mail: _____

Where obtained: _____

Please charge my Visa __ Mastercard __ Access __ EuroCard __ (please tick one) :

Card Number: _____ Exp. Date: _____

Signature: _____

Trademarks

Windows is a registered trademark of Microsoft Corporation.

Windows 3.1, Windows for Workgroups 3.11, Windows 95 and Windows NT are registered trademarks of Microsoft Corporation.

OS/2 is a registered trademark of International Business Machines Corporation.



Acknowledgements

Karri Software Ltd. would like to **THANK ALL** of the registered users of **Link Check** for supporting the **Shareware** concept. Without you **Shareware** would not exist.

Special thanks to **Bob Henderson** for his many suggestions, and for spending his own time testing **Link Check** and providing useful feedback.



How to Upgrade to Version 5.0

If you are an existing registered user of **Link Check**, you may upgrade to Version 5.0:

Via CompuServe

Via Fax or Mail

Please note that the registered version of **Link Check** also includes the native versions for Windows 95* and Windows NT*.

* See Trademarks



Upgrade via CompuServe

To have your upgrade added to your CompuServe bill, **GO SWREG** and follow the instructions.

Important: If you are a VAT registered company residing in the European Union (EU), please use the registration ID **10095** and send your company VAT registration number to Karri Software Ltd (CompuServe ID 100422,3521).

For all other cases, please use the registration ID **10093**.

VAT = Value Added Tax



Upgrade by Fax or by Mail

Please select one of the following:

VAT Registered Companies in the European Union (EU)
All Others

VAT = Value Added Tax

Link Check 5.0 Upgrade Form/Invoice

Print this form by using the **File** menu option followed by the **Print Topic** menu option at the top of this page.

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Karri Software Limited, 10 Regency Close, Woodville Gardens, Ealing, London W5 2LP, England.

Fax: (+44) (0)181 998 1785

Payments can be in English pounds or US Dollars and **prices include shipping and handling fees**. Only 3.5 inch diskettes will be sent.

Link Check 5.0 _____ copies at 10 pounds / \$17 each: _____

TOTAL: _____

Name: _____ Date: _____

Company: _____

Address: _____

Postcode/Zip: _____ Country: _____

Telephone: _____ Facsimile: _____

VAT Reg. Number: _____ Email: _____

Link Check ID: _____ (Registration ID)

Please charge my Visa ___ Mastercard ___ Access ___ EuroCard ___ (please tick one):

Card Number: _____ Exp. Date: _____

Signature: _____

Link Check 5.0 Upgrade Form/Invoice

Print this form by using the **File** menu option followed by the **Print Topic** menu option at the top of this page.

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Fax: (+44) (0)181 998 1785

Payments can be in English pounds or US Dollars and **prices include VAT, shipping and handling fees**. Only 3.5 inch diskettes will be sent.

Link Check 5.0 _____ copies at 12 pounds / \$20 each: _____

TOTAL: _____

Name: _____ Date: _____

Company: _____

Address: _____

Postcode/Zip: _____ Country: _____

Telephone: _____ Facsimile: _____

Electronic Mail: _____

Link Check ID: _____ (Registration ID)

Please charge my Visa ___ Mastercard ___ Access ___ EuroCard ___ (please tick one):

Card Number: _____ Exp. Date: _____

Signature: _____



Registered Version Details

Link Check is shareware and not available for free. You are allowed a 21-day evaluation period free of charge for this program and then you should either register it with the author or remove it from your disk(s). Should you use it after the 21-day evaluation period, you are violating US and international copyright laws and treaties.

To register this program, please click on [How to Register/Order](#).

The registered version of the **Link Check** package includes native versions of:

1. **Link Check** for Windows 3.x, Windows 95* and Windows NT*
2. **Memory Check** for Windows 3.x and Windows 95
3. **Function Check** for Windows 3.x, Windows 95 and Windows NT
4. All references to "Unregistered Shareware" removed

* [See Trademarks](#)

As a registered user of **Link Check**, you will receive the following benefits:

1. Technical support over the telephone and Email
2. All future upgrades at much reduced prices or in some cases for free
3. Information on other programs/utilities as they become available.

As a bonus, a card game for Windows is included free of charge.



Copyright and License Agreement

Link Check 5.0 (Shareware Version)

Memory Check 5.0 (Shareware Version)

Function Check 5.0 (Shareware Version)

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