

Babbacombe Computers Ltd

Bloating Files Finder

Bloat is a Windows 3 program designed to simplify the task of clearing unwanted files from disks, and working out which directories are taking up too much of the disk. It calculates the space used by the files in each directory of a disk, including subdirectories, and displays the results as a navigable tree and a pie chart. In addition, it allows the files in each directory to be listed, viewed and deleted. The search may be narrowed so that only files fitting certain criteria are included.

History

Version 1.0 (27 October 1991)

Original release

Version 1.1 (5 January 1992)

Support for 3D dialogs

Virus Checker

File Size filter

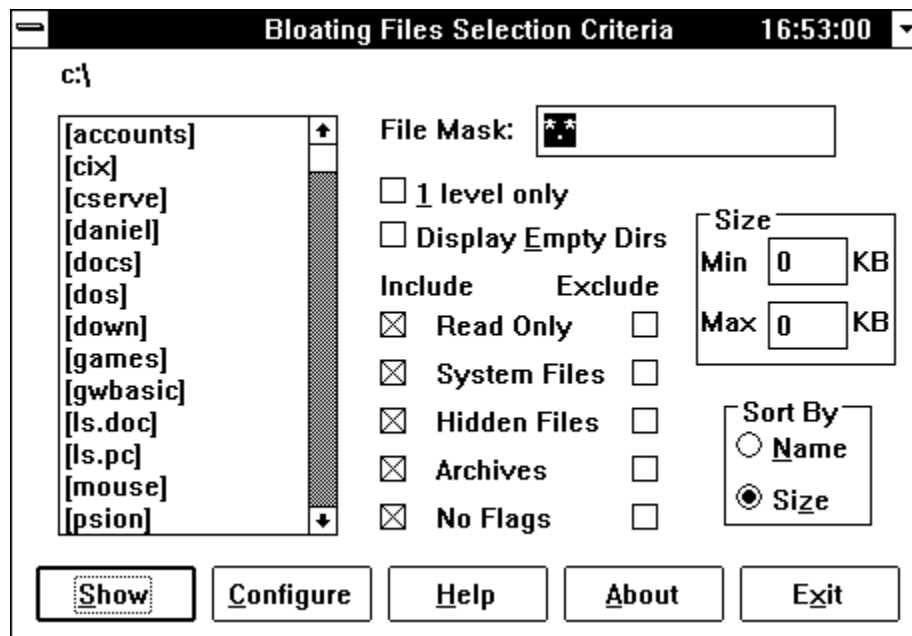
File List facilities

Configuration facilities

Pie chart colouring

The Search Criteria Window

The Bloating Files Search Criteria Window is the main window of Bloat and looks like this:



The top directory of the search is displayed at the top left hand corner of the window. The search will include this directory and all the subdirectories within it. You change it by double clicking on

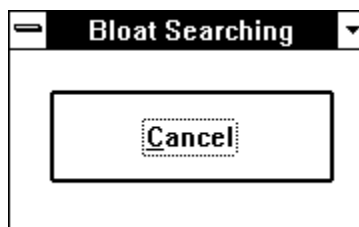
entries in the list box below it. This is similar to selecting a file in Notepad, except that you select only a directory. To change to another disk select the disk from the bottom of the list.

The File Mask is used to restrict the search to files which match it. For example, to only include files with the extension TMP, enter *.tmp as the mask. The Size Box is used to restrict the search to files within a range of sizes (in KBytes). A maximum size of 0 means that there is no maximum limit on the sizes of files to be included.

The **1 Level Only**, **Display Empty Directories** and **Sort By** switches modify the way the results of a search are displayed. They specify the settings which will be used initially when the search is completed. All of these may be subsequently modified in the Bloat Results window; see below.

The **Include** and **Exclude** switches are used to restrict the search to files with particular attributes. The first four pairs of switches specify whether a file with that switch set is to be included or excluded. The fifth set, **No Flags**, specifies whether files with no attribute flags set are to be included. See your DOS manual for an explanation of file attributes. When deciding whether to include a file Bloat will first check the include flags and reject the file if none of its attributes are in the include list. It will then check whether any of its attributes are in the exclude list and reject it if they are. Files with no attributes set will be included if the **No Flags** switch is set and rejected otherwise. If **Hidden Files** is set to include then hidden directories will be included in the search, otherwise they will be excluded. So, for example, to include all files which have the archive attribute, and exclude all files which do not, have **Archives** set to include and all the other switches unset. To include all files except those with the system attribute, set **System Files** to exclude and all the others to include.

The **Show** button will start the search. While the search is continuing this **Cancel** dialog box will be displayed:



Pressing the **Cancel** button will end the search and return to the Selection Criteria window. The minimise button on the dialog box will iconise Bloat until the search is complete. While the search is continuing other applications may be run with minimal loss of performance due to Bloat. When the search is complete the Bloat Results and Bloat Results Chart windows will be displayed (see below).

The **Configure** button will bring up the Configuration window, which allows default search settings, various program settings, and the pie chart colours to be set. See below for an explanation of how to use this.

The **Help** button runs the Windows Help application to give context sensitive help for Bloat. Help buttons are available within many of Bloat's dialogs, and each will give help relevant to that dialog. On this dialog the Index will be displayed. In order to use this facility the file BLOAT.HLP must be available either in a directory included in the PATH environment variable (see your DOS

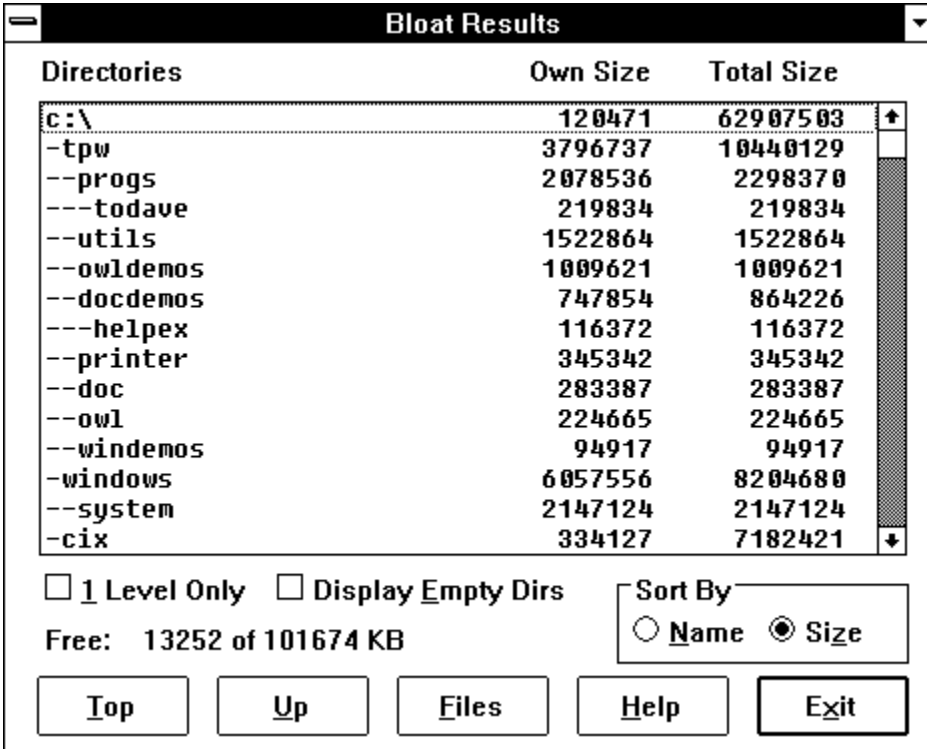
manual for an explanation) or in the same directory as BLOAT.EXE.

The **About** button will show a dialog which gives information about Bloat. It includes a **Register** button which allows Bloat to be registered. Until Bloat is registered this dialog will appear whenever the program is started or exited.

The **Exit** button closes the Bloat application.

The Bloat Results Window

When the search is complete the Bloat Results window and the Bloat Results Chart window will be displayed. The Bloat Results window looks like this:



The screenshot shows the 'Bloat Results' window. It features a table with three columns: 'Directories', 'Own Size', and 'Total Size'. The table lists various directories on the C: drive, including the root, subdirectories like 'tpw', 'progs', and 'system', and individual files like 'todave', 'utils', and 'docdemos'. Below the table, there are checkboxes for '1 Level Only' and 'Display Empty Dirs', a 'Sort By' dropdown menu set to 'Size', and a status bar showing 'Free: 13252 of 101674 KB'. At the bottom, there are five buttons: 'Top', 'Up', 'Files', 'Help', and 'Exit'.

Directories	Own Size	Total Size
c:\	120471	62907503
-tpw	3796737	10440129
--progs	2078536	2298370
---todave	219834	219834
--utils	1522864	1522864
--owldemos	1009621	1009621
--docdemos	747854	864226
---helpex	116372	116372
--printer	345342	345342
--doc	283387	283387
--owl	224665	224665
--windemos	94917	94917
-windows	6057556	8204680
--system	2147124	2147124
-cix	334127	7182421

☐ 1 Level Only ☐ Display Empty Dirs Sort By:
 ☐ Name ☒ Size

Free: 13252 of 101674 KB

Top **Up** **Files** **Help** **Exit**

The list box contains 3 columns. The first column lists the directories. The Top directory of the search is the first one and is shown as a full pathname (it starts with the disk). Subdirectories are shown below it with one or more dashes to represent their depth below the Top directory. The Second column shows the total size of those files which were included in the search in the directory, not including those in its subdirectories. The third column shows the total size of the included files in the directory and all of its subdirectories. These sizes are all in bytes.

Note that these figures are based on the number of bytes in the files and do not show the actual amount of physical disk space used by the files - this will depend on how the disk was formatted - but will always be somewhat less.

Double clicking on an entry in the list will make it the current top directory. The list will be redisplayed to show the subdirectory tree as though that directory was the Top directory of the search. The **Top** button will reinstate the original Top directory, and the **Up** button will make the parent of the current top directory the new current top directory. You cannot use the **Up** button to move to a directory above the original Top directory; to do this you will need to run another search. When the current top directory is changed the Chart display (see below) will be modified to reflect the change.

The **1 Level Only** switch is used to set the depth of subdirectories which will be displayed in the list. If it is set then only the current top directory and its immediate subdirectories will be displayed. Otherwise all of the subdirectories below the current top directory will be displayed.

The **Display Empty Dirs** switch specifies whether files with a Total Size of 0 will be included in the list.

The **Sort By** box allows the list to be sorted by Name or by Size. This means that the subdirectories of each directory will be sorted by that key (in other words, the Tree structure is always maintained).

The **Files** button will display the Files dialog. This shows the included files in a directory and allows them to be viewed and deleted, if desired. If a directory is selected in the list box then this is the one displayed, otherwise the current top directory is used. See below for details of the Files dialog.

The **Help** button will display help on the Results windows, and the **Exit** button will return to the Selection Criteria window.

The **Free** Box at the bottom left hand corner of the window displays the free space available on the disk, and the total size of the disk, in KBytes. It is updated whenever the files dialog is exited (see below).

The Bloat Results Chart Window

This is displayed together with the Results window, and is closed and iconised using the controls on the Results window. It displays a pie chart showing the subdirectories of the current top directory of the results window. When the current top directory is changed it will automatically be redisplayed to reflect the change.

The pie chart shows the name and the percentage of the total size in each of the subdirectories, the largest is shown starting at the 3 o'clock position and the others run anti-clockwise in size order. The total size used is the total of the sizes of the included files in the subdirectories, not including the current top directory. Directories which contribute less than 1% of the total will not be included, but if th

ere are a large number of these then they may be lumped together and displayed as Others. Because of rounding errors this may sometimes be 1% out.

If the current top directory has no subdirectories then this window will be blank. If there is only one subdirectory then it will be shown as 100%.

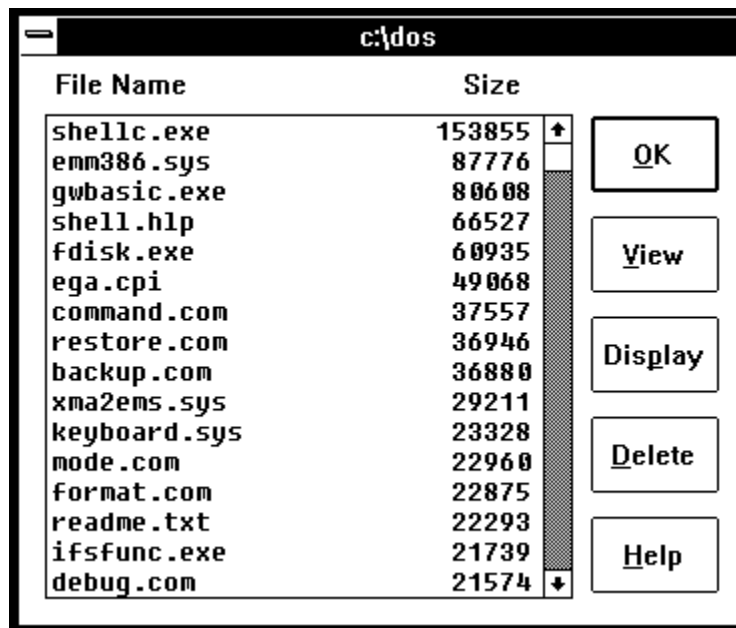
If the window is resized then the pie chart will also be resized to fit it.

The names and percentages are displayed in a circle around the outside of the pie chart. If there are a large number of subdirectories then the names may run into each other, particularly around the 6 o'clock position. This effect can usually be overcome by maximising the window.

By default, the pie chart will be displayed using a cycle of Red, Green and Blue as the colours for the slices. This can be changed in the Pie Chart Colours window, as explained below.

The Files Dialog

This is displayed when the **Files** button is pressed in the Results window and looks like this:



It lists the files in the selected directory (or the current top directory if no directory was selected). Note that it only lists the files in that directory, not any subdirectories, and only includes those files which were included in the search. The files are listed in the order currently specified in the Results window, either by Name or by Size. If there are no included files in the directory then the list will be empty.

The **View** button will run an external viewer to allow you to view the contents of the selected file. By default the viewer used will be the program associated with the file in the File Manager. If there is no association then the default viewer used is the Notepad accessory supplied with Windows. This is not ideal for a number of reasons. It is limited as to the size of files it can load, and can only really display text files (and even then a number of common text formats are not supported by it). It is recommended that you configure Bloat (using the Configuration window explained below) to use a shareware or freeware Windows file viewer. Any viewer which can accept the filename as a parameter can be used. If you do not have a suitable Windows viewer then Vernon Bueg's LIST.COM can be used (although this is a DOS program you can, if you use enhanced mode, set up a PIF file to run it in a window). If you prefer to always run your preferred viewer rather than any associated program then you can set Bloat to do this from the Configuration window.

The **Display** button will display a box listing the last modification date and time, size and file attributes of the selected file.

The **Delete** button will delete the selected file. It first asks for confirmation. It will ask for confirmation before deleting the file. If the file has the read only attribute set then it will ask for

further confirmation. On returning to the Results window the directory list will be updated to remove any deleted files from the totals.

The **OK** button returns to the Results Window. The Free Space displayed in the Results window will always be updated on returning.

The **Help** Button displays help on using the Files dialog.

The Configuration Window

This is reached by pressing the **Configure** button in the Selection Criteria window and looks like this:

The screenshot shows the 'Bloat Configuration' dialog box. It has a title bar with a minus sign. The dialog is divided into several sections. On the left, there is a 'Style' box with two radio buttons: '3D' (selected) and 'Normal'. Below this is a 'Virus Checker' checkbox (checked), a 'Viewer' text box containing 'notepad.exe', and an 'Associate' checkbox (checked). In the center, there are 'Colours' and 'Help' buttons. To the right of these are 'Mask' and 'Directory' text boxes, both containing '*.*' and 'c:\' respectively. Further right is a table of search criteria with 'Include' and 'Exclude' columns. The 'Include' column has checked boxes for 'Read Only', 'Hidden Files', 'Archives', and 'No Flags'. The 'Exclude' column has checked boxes for 'System Files' and 'Unreadable Files'. At the bottom, there are checkboxes for '1 level only' (unchecked) and 'Display Empty Dirs' (checked), followed by 'Save' and 'Cancel' buttons.

Bloat Configuration	
Style <input checked="" type="radio"/> 3D <input type="radio"/> Normal	Mask: *.*
<input checked="" type="checkbox"/> Virus Checker	Directory: c:\
Viewer: notepad.exe	Colours
<input checked="" type="checkbox"/> Associate	Help
Sort By <input type="radio"/> Name <input checked="" type="radio"/> Size	Include
Size Min 0 KB Max 0 KB	<input checked="" type="checkbox"/> Read Only
<input type="checkbox"/> 1 level only	<input type="checkbox"/> System Files
<input checked="" type="checkbox"/> Display Empty Dirs	<input checked="" type="checkbox"/> Hidden Files
	<input checked="" type="checkbox"/> Archives
	<input checked="" type="checkbox"/> No Flags
	Save Cancel

The controls in the box in the top left hand corner define various parameters used by Bloat, and the remaining ones define the initial Search Criteria to be set up when Bloat is run. Except where specified below these do not take effect until the next time Bloat is run.

The **Style** box is used to set whether Bloat will use the 3D style (see below) or the Normal Windows style. If three_d.dll is not available then it will use the normal style regardless of this setting.

The **Virus Checker** switch determines whether the Virus check will be run when Bloat is started up (see below).

The **Viewer** box allows you to specify a file viewer to be used in place of notepad.exe when viewing files you may wish to delete. This option takes effect when the configuration is saved.

The **Associate** switch determines whether Bloat will use the File Manager association set for the file to be viewed (if one is set) or always use the viewer defined above. This option takes effect when the configuration is saved.

Pressing the **Colours** button will display the Pie Chart Colours configuration window. See below for information on this.

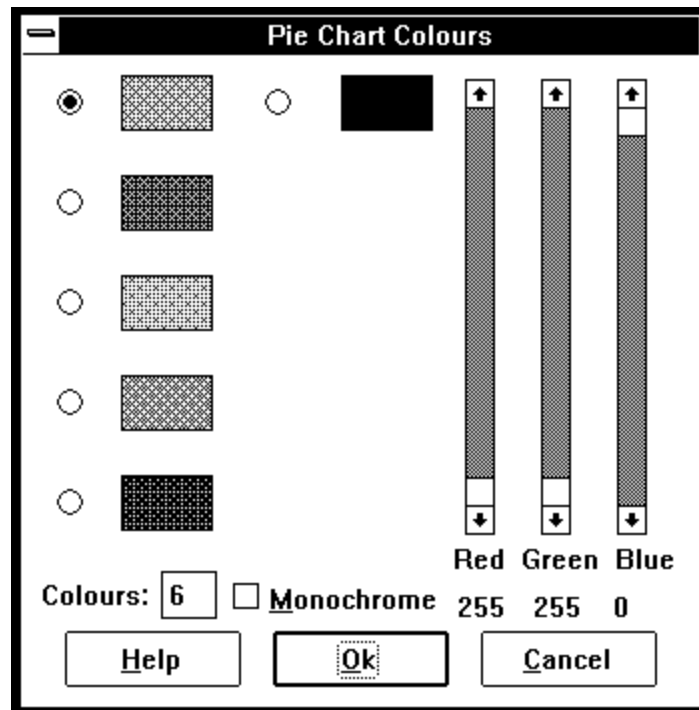
The **Help** button displays help on configuring Bloat

The **Save** button saves the current configuration and returns to the Selection Criteria window.

The **Cancel** button returns to the Selection Criteria window without saving the configuration. Note that any colour changes made will not be saved if this button is pressed.

The Pie Chart Colours Configuration window

This window is used to set the colours for the slices of the pie chart, and looks like this:



Up to 10 colours may be set for the slices, with a minimum of 3. To change the number of colours enter the new number in the **Colours** box and press the **Tab** key. To select which colour to change press the radio button to the left of the colour box. The colour used is a mixture of Red, Green and Blue defined by the Scroll Bars to the right. The amount of each is shown underneath the scroll bar as a number from 0 to 255. The higher the number the more of that shade is in the colour. Unless you have a sophisticated colour video card then most settings will show dithered colours, where a pattern of shades is used to approximate the required colour. Take care not to

choose a colour the same as your window background colour.

The reason for using RGB values in this range is simply that this is how Windows stores colours internally, and this allows you to set any colour which can be displayed by Windows.

If the **Monochrome** switch is set on then the pie chart will be displayed with outlines for the slices rather than wedges of colour. The controls for defining colours will not be displayed in this window while this switch is set. Even if you have a monochrome monitor you may prefer to set this switch off and display dithered patterns rather than outlines.

The Help button displays help on setting the colours.

The **Ok** button will return to the Configuration window. Note that the new colour settings are not actually saved unless the **Save** button in the Configuration window is pressed.

The **Cancel** button will discard any colour changes and return to the Configuration window.

The Virus Detection Option

Bloat contains code which allows it to carry out a simple check to see if its executable file has been modified by a virus. This is not a rigorous virus check and should not be used instead of specialised virus detection programs. However, it is possible that it could cause a virus to be detected earlier than it otherwise would, and this could limit the damage caused.

By default, the virus checking facility is switched off. It can be enabled from the Configuration window.

With virus checking switched on the program will take several seconds longer to start up, depending on the speed of your machine (about 5 seconds longer on mine).

Any modifications to the executable file will cause the virus check to be triggered (if it is switched on).

3d Dialog Boxes

Bloat contains code which enables it to use the facilities provided by a Dynamic Link Library called three_d.dll. This library allows programs which use it to display their Dialog Boxes using a sculpted 3D effect. Bloat does not insist that you use the library, and can display its Dialogs with the standard Windows look. This can be set on or off from within the Configuration window as explained below. Bloat will operate even if the library is not available but will then, of course, always use the normal Windows style.

The library file three_d.dll can be placed in any directory on your path (ie included in the DOS PATH environment variable). Your Windows directory, or the directory where you place utilities, is suitable.

With 3d styling on the virus detector will still use normal Windows styling to report errors. With luck, you will never see this.

Acknowledgements

The virus detection code is based on a program written by Nick Wallbridge and published in Personal Computer World (Aug 1991).

Three_d.dll is used by permission of Ray Donahue, 365 Mather Street, Unit 125, Hamden, CT 06514. If you wish to develop applications using the 3d styling in Turbo Pascal for Windows then you may wish to obtain a TPW Unit developed by Babbacombe Computers Ltd which simplifies development using the DLL, and which also provides the 3d styling for message boxes. Note that fees charged for the use of this Unit by Babbacombe Computers are in addition to those required by Ray Donahue to allow distribution of the DLL.

The Help screens were generated using Xantippe, from IRIS Media Systems, who can be reached via CompuServe as 76547,706.

Ordering

Bloat V1.1 is a shareware program. You may use it for up to 21 days to decide whether it is useful to you. If you wish to continue using it after that then you must pay for it. The Registration fee is £15 sterling or \$25 US. You can send cheques (in sterling or dollars) or cash to:

Babbacombe Computers Ltd
397 Meanwood Road
Leeds
West Yorkshire
UK
LS7 2LL

We can be contacted by email as tprinn@cix.compulink.co.uk or 100016,2726 on CompuServe or by telephone on 44 532 459673 (that is, 0532 459673 within the UK). Write or call for details of site licenses.

In return for registering we will tell you how to personalise your copy of the program and make it skip the initial nagging, and send you updates, bug fixes etc. (of Version 1) of the program if you require them (any updates will be released onto Cix and CompuServe as they are produced).

You may freely distribute unmodified, unregistered copies of this program to friends and colleagues, and upload it to Bulletin Boards, provided that you accept no payment for them, and that this documentation is included with them. Shareware vendors and user groups must contact Babbacombe Computers before including the program in any catalogues or distributions.

The program BLOAT.EXE and this documentation are copyrighted
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Order Form for Bloat v1.1

Send, together with a cheque for £15 or \$25, to:
Babbacombe Computers Ltd
397 Meanwood Road
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LS7 2LL

Name: _____

Address: _____

Email: _____

If you wish to receive a copy of the program and updates on disk then tick the disk size. $3\frac{1}{2}$ " _____ $5\frac{1}{4}$ " _____

If you do not tick one then we will email (or snail mail) you as updates are released so that you can download the new version.

Name to appear in About Window (this is used to generate your registration number):
