

Xtruder

Martin Wulffeld

COLLABORATORS

	<i>TITLE :</i> Xtruder		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY	Martin Wulfeld	July 22, 2024	

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Chapter 1

Xtruder

1.1 Xtruder guide

```
Xtruder
*****

About Xtruder
About SHI
Disclaimer

Features

CLI usage
Menus
Gadgets
ARexx commands

Trouble shooting

History
Future

How to register
Contacting the author
Credits
```

1.2 About Xtruder

This program is SHAREWARE and you're only allowed a 2 week evaluation period. If you want to use Xtruder beyond that period you must register.

How to register

This is yet another viruskiller but in quite a different vein than the majority. The main aim with Xtruder is to stop the spreading of vira through bulletin boards.

Xtruder requires Kickstart 2.04 or higher.

It needs the following versions of libraries:

reqtools.library	v38+	-	ReqTools is Copyright (c) Nico François
unpack.library	v39+	-	Library made by Thomas Neumann/SHI
removelink.library	v32+	-	Library made by Johan Öhman/SHI
Bootblock.library	v3+	-	Library made by Johan Eliasson/SHI
FileID.library	v6+	-	Made by BLOODROCK of SYNDICATE

and the following must be placed in L:

Bootblock.brainfile - Used by Bootblock.library

When you start Xtruder you will either see the GUI or nothing! If you don't see anything it's because you have configured it not to popup at start. See General preferences for more information.

It will of course load the preferences, paths and rexx prefs files if they are available.

When Xtruder "sleeps" it will still be aware of the time check and ARexx scripts can also still be executed.

1.3 About SHI

If you know a virus programmer you can get a reward of \$ 1000 for supplying his name and address. The fact is that the law punishes data crime very severely. (5 years in jail in most countries).

We are an international group with more than 250 members who have started trying to stop the spreading of vira. Let me give you some examples:

1. Our motto is: "Safe Hex", who dares do anything else today?".
2. A virus bank containing all well known virus killer programmes.
3. We help people to get money back lost by virus infection.
4. We write articles about virus problems for 8 magazines.
5. We release the newest and the best virus killers around.
6. We have more than 20 "Virus Centers" worldwide where you can get free virus help by phoning our "Hotline", and the newest killers translated in your own language at very little cost.
7. We hope that you can see how important your support is too, if you are using one of the following programs, which are actually using our anti virus libraries:

* Virus Checker by Johan Veldthuis

* Virus Scanner by Gabriele Greco

* Fides Professional by John Lohmeyer

* Fides Checker by John Lohmeyer

- * D-Copy by Stefan Bernbo
- * X-Copy APRIL '93 by Cachet Software (commercial)
- * Disk Ute Copy by Alchemy Software.
- * MT-Copy by Gert-Jan Strik, is doing a file- and boot virus check while you are copying disks and is extremely fast too... suprised?

Please send new viruses because without YOUR SUPPORT TOO, we can't stop the future virus spreading!

For more information contact:

SAFE HEX INTERNATIONAL
Erik Loevendahl Soerensen
Snaphanevej 10
4720 Praestoe
Denmark

(Please send a "Coupon-Response International" and a self addressed envelope, if you want information about SHI by letter).

Phone: +45 55 99 25 12
Fax: +45 55 99 34 98

1.4 Legal stuff

When there in the following is refered to Xtruder it implies the files in this distribution.

Xtruder is copyright © 1994 Martin Wulffeld. All rights reserved.

Xtruder may not be modified nor disassembled in any way! Doing so is illegal.

Xtruder may not be used for commercial purposes without a written permission from me. Ie distributing Xtruder on a coverdisk is strictly forbidden without my permission.

You may distribute Xtruder as long as all files are accompanied it and no more than a reasonable copying fee is charged, but no more than US \$5. Xtruder may be packed with lha or similar archiver as long as the files are not modified by it.

Xtruder has been tested on several machine configurations and has proven to run fine on those, but I the author, Martin Wulffeld, cannot be held responsible for ANY damage the Xtruder package might have inflicted to your system due to bugs or misuse!

If you want to see future development on Xtruder you have to register.

How to register

1.5 How to register

To register, send me an errorfree doubledensity disk and US \$15, DM 25, £10 or 100 DKr. Cash is preferred.

Fill out the registrationform which is included in the Xtruder archive as 'Xtruder.regform' and mail it to me.

This version of Xtruder has not been crippled but future versions might be if the donations are few. Therefore I might make a key file.

If I do so all those who registered before the key file was made will of course be able to get their key file. Just send a disk to me and I'll forward a keyfile with the newest version of Xtruder back to you.

NOTE NEW EMAIL NUMBERS:

- * Snail mail: Martin Wulffeld
 Fredensvej 14
 4720 Præstø
 Denmark
- * Fidonet: 2:236/12.1 (Preferably use this one)
 2:236/116.14
- * Amynet: 39:141/12.1

1.6 Features

- * A commodity
- * Supports newlook menus
- * Able to unpack almost any cruncher type
- * Check for vira within archives
- * Check specified paths every n minutes and handle vira without any user interaction at all
- * Save bootblocks as binary for later use
- * ARexx port
- * 99% keyboard controllable
- * Configurable to skip already checked files
- * Time check
- * Locale support (WB 2.1 or higher)
- * Works with MultiUserFileSystem (AFAIK ;)

1.7 CLI Usage

Xtruder has a small but efficient CLI interface. The template is:

P=PATH/K,F=FILE/K,Q=QUIT/S

The arguments have the following meaning

- P/PATH - The path to check
- F/FILE - The file to check. File is treated as uncrunched.

Q/QUIT - Quit Xtruder after checking path/file

1.8 Menus in Xtruder

About...
Hide
Quit

Load ARexx scripts...
Save ARexx scripts...
Install ARexx script...
<script names>

Clear...
Show...
Save...

Paths...
General...
Check...
Save...

1.9 Project menu - About...

Well... surprise, surprise! Information on Xtruder will be shown.

1.10 Hide

Choosing Hide will hide the graphical appearance of Xtruder. You can then press the defined popkey and it will reopen it's GUI.

NOTE: When the GUI is hidden the timed check is still active and ARexx script can still be executed.

1.11 Quit

I just don't feel like explaining this right now :-)

1.12 Load ARexx scripts

Choosing this will pop up a file requester with the default name for the ARexx script file. But you can of course choose an earlier saved script file.

After having loaded the commands they will appear in the ARexx menu.

1.13 Save ARexx scripts

Choosing this will pop up a file requester with the default name for the ARexx script file. You can of course choose another name for the scripts but upon startup ONLY the ARexx script file 'S:Xtruder.rexxcmds' will be loaded.

1.14 Install ARexx script

First a little requester will appear asking you to enter a number which corresponds to the item in the ARexx menu where this script will appear. Upon pressing return or 'Okay' yet another requester appears. Here you can have to write the filename of the rexx script. Fx 'xtruder/chkpaths.rexx'.

The filename will appear in the menu and when you select the script it will be executed.

1.15 Execute ARexx script

Executes the ARexx script installed in the chosen menu.

1.16 Clearing log

Clears the log buffer.

1.17 Show log

Shows the contents of the log buffer.

1.18 Save log

Saves the contents of the log buffer. Pops up a file requester where you must choose a filename.

1.19 Paths preferences

Here you will see a list of the paths which you check with All Paths or then again maybe nothing at all. Anyway choose 'Add Path' and a path requester pops up. Choose Okay and the path you selected will be shown in the list.

To remove a path just select one and press 'Remove Path'. Easy? Yep!

To save the paths (instead of choosing them over and over again) press 'Save paths' and they will be saved to 'S:Xtruder.paths'.

1.20 General preferences

Log file
Write to log buffer
Cx Popkey
Popup at start

1.21 General preferences - Log file

A filename for the log buffer. When you first select Save... this name will be used to save the log! If a file with that name exist a filerequester will request you for a new name.

1.22 General preferences - Write to log buffer

Whether you want to write to the log buffer or not!

1.23 General preferences - Popkey

Your popkey! Default popkey is 'control lamiga x'.

1.24 General preferences - Pop up at start

If you want to hide Xtruder when it is started just deselect this check box gadget. Ideal for BBS users who doesn't want Xtruder to pop up but just stay in the background.

1.25 Check preferences

Unpack path
Virus path
Virus comment
Virus rename extension
Custom BB
Do if virus found
Do if virus copied
Time check
CPB flags
Set CPB Flags

```
Check files with CPB
Auto deprotect
Decrunch files
Extract archives
Check dirs recursively
Safe delete
Auto check disks
Auto read bootblock
Show bootblock
Quiet time check
```

1.26 Check preferences - Unpack path

By default this string gadget contains 'RAM:Unpack'. This path must be present for Xtruder if you will be able to decrunch files or extract archives.

Upon startup Xtruder will try to find this path and if it doesn't exist Xtruder will ask you if it should be created.

1.27 Check preferences - Virus path

By default this string gadget contains 'RAM:Virus'. This path must be present for Xtruder being able to store infected files.

Upon startup Xtruder will try to find this path and if it doesn't exist Xtruder will ask you if it should be created.

1.28 Check preferences - Virus comment

By default this string gadget contains 'This file is a virus or has a virus linked to it'.

This is the comment that automatically will be used when Xtruder finds a virus and Do if virus found or Do if virus copied has been set to 'Comment'.

1.29 Check preferences - Virus rename extension

By default this string gadget contains '_VIRUS'.

If you have set Do if virus found or Do if virus copied to 'Rename' this is what will be appended to the virus:

Example:

A file 'BadBoy' would then be renamed to 'BadBoy_VIRUS'.

1.30 Check preferences - Custom BB

By default this string gadget contains nothing.

The filename of a custom bootblock.

1.31 Check preferences - Do if virus found

You have the choice between the following:

- Enfeeble
- Delete
- Rename
- Comment
- Copy
- Move
- Request - Enfeeble
- Request - Delete
- Request - Rename
- Request - Comment
- Request - Copy
- Request - Move

1.32 Do if virus found/copied - Enfeeble

Simply removes the executable bit from the protection flags of the infected file so it can't be started.

1.33 Do if virus found - Delete

Deletes the infected file/archive.

1.34 Do if virus found/copied - Rename

Appends the Virus rename extension to the infected file/archive.

1.35 Do if virus found/copied - Comment

Comments the infected file/archive with Virus comment

1.36 Do if virus found - Copy

Copies the infected file/archive to the Virus path .

1.37 Do if virus found - Move

Copies the infected file/archive to the Virus path and then deletes the original!

1.38 Do if virus found/copied - Nothing

Quite tricky this one .-) Does absolutely NOTHING!

1.39 Do if virus found/copied - Request -> Enfeeble

Simply removes the executable bit from the protection flags of the infected file so it can't be started.

1.40 Do if virus found/copied - Request -> Delete

Deletes the infected file/archive.

1.41 Do if virus found/copied - Request -> Rename

A request for a name for the infected file pops up. This name will NOT be appended to the old name!

1.42 Do if virus found/copied - Request -> Comment

A request for a comment pops up where you can write a string of max 80 characters.

1.43 Do if virus found - Request -> Copy

Copies the infected file/archive to the Virus path .

1.44 Do if virus found - Request -> Move

Copies the infected file/archive to the Virus path and then deletes the original!

1.45 Check preferences - Do if virus copied

You have the choice between the following:

- Enfeeble
- Rename
- Comment
- Nothing
- Request - Enfeeble
- Request - Rename
- Request - Comment
- Request - Nothing

1.46 Check preferences - Time check

If set to 0 minutes there will not be an active time check but as soon as you change this value to something higher than 0 and leave preferences Xtruder will try to set up a time request and notify you if it succeeded in doing so. Every time you change the value Xtruder will abort the current time request and set up a new one.

1.47 Check preferences - CPB flags

CPB stands for 'Checked Protection Bits'. These flags are used for identifying files which have already been checked. Put in another way: If a file has the flags specified here and Check files with CPB is off, that file will be skipped! Ideal if you have a lot of lha archives which has been checked before.

1.48 Check preferences - Set CPB flags

CPB stands for 'Checked Protection Bits'. Will set the CPB flags specified if a file was successfully checked.

1.49 Check preferences - Check files with CPB

If set, files with the Checked Protection Bits flags will also be checked. Ideal when you get a new version of removelink.library which knows more vira.

1.50 Check preferences - Auto deprotect

If a file is protected from reading you can set this option and it will be deprotected.

1.51 Check preferences - Decrunch files

Set this to decrunch files. Very handy indeed :-)

1.52 Check preferences - Extract archives

Set this to extract lha archives. Remember that ALL files within the archive will be decrunched or extracted if they can be!

1.53 Check preferences - Check dirs recursively

Set this if you want to enter sub-directories.

1.54 Check preferences - Safe delete

When an archive has been extracted it either takes up memory or HD space. Therefore the extracted files in the Unpack path will be deleted. This can be done without user interaction at all but if you set this option you will be asked before Xtruder starts deleting!

1.55 Check preferences - Auto check disks

If set, Xtruder will check any inserted disk as a normal path. Ie no need to fumble with the gadgets if you need to check your whole disk collection for vira.

1.56 Check preferences - Auto read bootblock

If set, Xtruder will check any inserted disks bootblocks.

1.57 Check preferences - Show bootblock

If set, Xtruder will show the checked bootblock on the screen.

1.58 Check preferences - Quiet time check

If set, Xtruder will not ask you if it should commence checking specified paths. Ideal if you run a BBS and want to check your uploads every hour or so.

1.59 Save preferences

Save preferences to 'S:Xtruder.prefs'.

1.60 Gadgets in the main window of Xtruder

Check
Bootblock
System
Miscellaneous

1.61 Check menu

All Paths
Single path
Bootblock
Memory

1.62 Check All Paths

This function is mainly for BBS use but can of course also be used by the general user. To use this function you must first specify some paths which you want to check regularly. This is done in Paths... . Pressing All Paths will then automatically check all the paths you have specified.

During a scan of a directory a little window pops up in the right side of the screen with 4 gadgets named:

Stop
Pause
Next
Skip

E.g.: If a file is being decrunched and you press 'Stop' Xtruder will first stop when this file has decrunched and checked.

Pressing 'Pause' will pause the scanning and wait until you press it again.

If you have set Check dirs recursively Xtruder will enter sub-directories and check them as well. Otherwise only the files in this directory will be checked.

If Xtruder finds a virus there is a number of different actions which can be carried out. These actions are discussed in Do if virus found .

If a lha archive is encountered and you have lha in C: this file will be extracted to the Unpack path , and all files within this archive (crunched programs/other archives) will be unpacked/extracted

too. When the archive has been extracted successfully or unsuccessfully the unpack path will be checked.

It's a good idea to make lha resident. This will reduce the time spent checking archives.

When a scanning of a directory is performed the number of files encountered will be written in the action window. Files in an archive are not counted though (they will be soon :-)

1.63 Control menu - Stop

Aborts the whole scan.

1.64 Control menu - Pause

Pops up a requester informing you of your pausing and waits for you to continue.

1.65 Control menu - Next

'Next' will jump to the next path you specified in Paths... .

1.66 Control menu - Skip

If you have entered a sub-directory with hundreds of sources and wish to skip it press Skip!

1.67 Check a single path

Does what it says actually. Pops up a requester where you select the path you want to check, and then checks it.

1.68 Check a bootblock

A window will pop up with 4 gadgets containing the possible drives (DF0 - DF3). Those which you do not have are ghosted eg disabled. Choose a drive and another window will pop up with 9 choices of bootblocks to install. The first 8 are from the bootblock library and represents the standard types of bootblocks. The last one (Custom BB) is a custom bootblock taken from the the Custom BB in preferences.

1.69 Check the memory

Checks the memory via the removelink library and kills any vira it might have found.

1.70 Bootblock gadgets

```
Install
Save bin
```

1.71 Install a bootblock

A window will pop up with 4 gadgets containing the possible drives (DF0 - DF3). Those which you do not have are ghosted eg disabled. Choose a drive and another window will pop up with 9 choices of bootblocks to install. The first 8 are from the bootblock library and represents the standard types of bootblocks. The last one (Custom BB) is a custom bootblock taken from a file. You can set the filename of the custom bootblock in check preferences.

1.72 Save a bootblock as binary

A window will pop up with 4 gadgets containing the possible drives (DF0 - DF3). Those which you do not have are ghosted eg disabled. Choose a drive and the bootblock of the drive will be read. If everything wen't okay a filerequester pops up. Choose a file or write a name in the filename gadget and the bootblock will be saved.

1.73 System gadgets

```
Libraries
Devices
Resources
Tasks
```

1.74 List of libraries

A window pops up showing all the libraries currently loaded to memory.

1.75 List of devices

A window pops up showing all the devices currently loaded to memory.

1.76 List of resources

A window pops up showing all the resources currently loaded to memory.

1.77 List of tasks

A window pops up showing all the waiting tasks.

1.78 Miscellaneous gadgets

Delete
Rename
Makedir
Comment
Execute

Type

Type
Unpack
Check

Bootblock
File/Link
Crunchers

1.79 Delete a file

You might want to delete a file once in a while (I do :) so just use this function.

1.80 Rename a file

In case you want to rename a file to something completely different.

1.81 Create a directory

Want a new unpack path? Just create one with this function.

1.82 Comment a file

You just found an archive with a virus, and want to comment it! Well then this function will come in handy! If a file already has a comment it will be in the string gadget.

1.83 Execute a command

Well, if you want to execute something like an external memory checker you could use this function.

1.84 Identify files in a path

Identify files in a path! Their filetypes will be written to the window but if you have set `Write to log buffer` they will also be written to the log buffer!

1.85 Identify a file

Have you always wondered what that darn certain file was? Well, then you can use this function to identify it.

1.86 Unpack a file

Unpacks the file you select to the `Unpack path` .

1.87 Check a file

Checks the file you select for file/link virus.

1.88 List of known bootblock vira

Will simply show those bootblock vira which are known to the bootblock library's brainfile!

1.89 List of known file/link vira

Will show those file/link vira which are known to the current version of `removelink` library!

1.90 List of known crunchers

Will show the types of crunchers which are known to the `unpack` library!

1.91 ARexx commands

As you probably know Xtruder has an ARexx interface. The address of the Xtruder ARexx port is 'XTRUDER'.

These are the commands:

```
GETFILE
GETPATH
CHECKALLPATHS
CHECKPATH
CHECKCLEANUP
CHECKFILE
CHECKMEMORY
CHECKBOOTBLOCK
INSTALLBOOTBLOCK
UNPACKFILE
CLEANUP
SHOWGUI
HIDEGUI
```

1.92 ARexx command - GETFILE

NAME

GETFILE - Get a filename

SYNOPSIS

GETFILE <pathname>

FUNCTION

Request the user to select a filename from the filerequester.

INPUTS

pathname - NOT required but if pathname is present it will be set in the filerequester.

RESULT

name - Will return whatever that was in the path gadget with the filename appended to it.

0 - If the user selected 'Cancel'.

1.93 ARexx command - GETPATH

NAME

GETPATH - Get a path from the filerequester

SYNOPSIS

GETPATH <pathname>

FUNCTION

Request the user to select a path from the pathrequester.

INPUTS
 pathname - NOT required but if pathname is present it will
 be set in the filerequester.

RESULT
 name - Whatever in the path string gadget.

 0 - If the user selected 'Cancel'.

1.94 ARexx command - CHECKALLPATHS

NAME
 CHECKALLPATHS - Check spefied paths for vira

SYNOPSIS
 CHECKALLPATHS

FUNCTION
 Checks the paths you have set in Paths... for vira.

RESULT
 0 - n - How many vira that were found.

1.95 ARexx command - CHECKPATH

NAME
 CHECKPATH - Check a path for vira

SYNOPSIS
 CHECKPATH pathname

FUNCTION
 Checks a path like All Paths .

INPUTS
 pathname - A fully qualified pathname.

RESULT
 0 - n - How many vira that were found.

 -1 - If it couldn't find 'pathname'.

1.96 ARexx command - CHECKCLEANUP

NAME
 CHECKCLEANUP - Check unpack path and delete afterwards

SYNOPSIS
 CHECKCLEANUP

FUNCTION

Checks the unpack path and then deletes all files within afterwards.

INPUTS

pathname - A fully qualified pathname.

RESULT

0 - n - How many vira that were found.

-1 - If it couldn't find 'pathname'.

1.97 ARexx command - CHECKFILE

NAME

CHECKFILE - Check a file

SYNOPSIS

CHECKFILE filename

FUNCTION

Checks a file to see if it is a virus or has one linked up to it.

INPUTS

filename - A fully qualified filename.

RESULT

1 - If it is infected.

2 - If it is clean.

0 - If it couldn't find 'filename' or load the file perhaps due to low memory.

1.98 ARexx command - CHECKMEMORY

NAME

CHECKMEMORY - Check memory for vira

SYNOPSIS

CHECKMEMORY

FUNCTION

Checks your memory for vira and kills those that were found.

RESULT

1 - If your memory was infected.

2 - If your memory was clean.

1.99 ARexx command - CHECKBOOTBLOCK

NAME

CHECKBOOTBLOCK - Check a disk bootblock

SYNOPSIS

CHECKBOOTBLOCK unit

FUNCTION

Checks a bootblock and determines via the Bootblock.brainfile if it's a known virus or not.

INPUT

unit - The drive unit ranging from 0 to 3 (DFx:).

RESULT

0 - Not a virus
 1 - If it's a virus.
 2 - If the bootblock wasn't bootable.
 -1 - If failed to read the bootblock.

1.100 ARexx command - INSTALLBOOTBLOCK

NAME

INSTALLBOOTBLOCK - Install a bootblock on a disk

SYNOPSIS

INSTALLBOOTBLOCK unit type

FUNCTION

Will try to install a bootblock on a disk.

INPUT

unit - The drive unit ranging from 0 to 3 (DFx:).
 type - The type of bootblock:

0 - 1.x OFS
 1 - 1.3 FFS
 2 - 2.0 OFS
 3 - 2.0 FFS
 4 - 2.0 OFS International
 5 - 2.0 FFS International
 6 - 3.0 OFS DirCache
 7 - 3.0 FFS DirCache

RESULT

0 - Installed successfully.
 n - Error code returned by either IoErr() or trackdisk device.
 -99 - Illegal type of bootblock.

1.101 ARexx command - UNPACKFILE

NAME

UNPACKFILE - Unpack a file

SYNOPSIS

UNPACKFILE filename

FUNCTION

Unpacks/extracts a file to the unpack directory.

INPUTS

filename - A fully qualified filename. Must be with path or else it will naturally try to load the file from the current directory.

RESULT

1 - Succes
0 - In case of error

NOTES

The unpack library unpacks/extracts all files in an archive, so if you have 2 archives within another archive they will be extracted too.

1.102 ARexx command - CLEANUP

NAME

CLEANUP - Delete all files in the unpack path

SYNOPSIS

CLEANUP

FUNCTION

Deletes all files in the unpack path. You could use this command in conjunction with UNPACKFILE, CHECKPATH.

1.103 ARexx command - SHOWGUI

NAME

SHOWGUI - Shows Xtruder

SYNOPSIS

SHOWGUI

FUNCTION

If Xtruder was asleep it will open it's GUI (graphical user interface). Otherwise it will pop it's screen to the front.

NOTES

If memory is VERY low there may not be enough memory to open the GUI and you will then informed about that with a requester.

1.104 ARexx command - HIDEGUI

NAME

HIDEGUI - Hides Xtruder

SYNOPSIS

HIDEGUI

FUNCTION

Hides the graphical user interface of Xtruder. You can then show it again with SHOWGUI .

1.105 Problems with Xtruder

When unpacking a file an error might occur and if so it will be written like this:

```
UNPACK ERROR <errornumber>: Problem with <filename>
```

With version 39.53 of the unpack library you can encounter the following errors:

- 1 - Can't open file
- 2 - Read/Write error
- 3 - Not enough memory
- 4 - Can't determine file
- 5 - Illegal password
- 6 - Hunk error
- 7 - Extern file error
- 8 - File is corrupt
- 9 - Illegal device
- 10 - Couldn't open device or create port
- 11 - CRC Checksum error
- 12 - Checksum error
- 13 - Decruncher in library too old
- 14 - Error from device
- 15 - Couldn't set protection bits
- 16 - Output file error

The most common error is probably error 3! You can then try to clear the log buffer to free up some memory!

1.106 The history of Xtruder

- 1.0
 - 1.1
 - 1.2
 - 1.3
-

1.107 Version 1.0 : 18.10.1994

First release.

1.108 Version 1.1 : 14.11.1994

Bug fixes: Whenever a file with the name '*' were encountered Xtruder would hang. Now it simply skips it! This is only a temporary solution though.

Wouldn't delete files in the unpack path after extracting an Lha archive.

Showing bootblock could cause a crash on 68000 machines.

1.109 Version 1.2 : 5.12.1994

Bug fixes: 'Miscellaneous/Check file' didn't write anything if a data file weren't infected.

Enhancements: When commenting a file the file's original comment will be placed in the string gadget.

Swedish catalog by Tauno Pinni included.

1.110 Version 1.3 : 6.1.1995

Bug fixes: Rewrote the Delete function so it now it deletes all in the unpack directory! (I hope :)

Other: Included old version of Bootblock brainfile in 1.2 distribution! Sorry %+(

1.111 Future improvements

Here are some things I intend to add to Xtruder:

- * Screen mode adaptive
 - * Font sensitive
 - * Palette requester
 - * Check sectors on a drive
 - * Remove vira from files and sectors
 - * Memory info
 - * Hardware info
 - * Unpack track crunched files (DMS)
 - * Scroll window
 - * Public screen
-

- * Vector/LVO check
 - * Knowing patches
 - * Check statistics
 - * Improved CLI interface
 - * Custom bootblock brainfile
 - * Custom file brainfile
 - * Integration of the VIB package (Information on virus can be shown)
 - * Bootblock analyzer
 - * More ARexx commands
 - * Zip/other archivers extract routine
 - * Full support for multiple BBS lines
 - * Make coffee :-D
- * Most important! What do YOU want?

All suggestions will be taken into consideration from ALL users.

Of course whether these future improvements will be implemented or not depends on how many registered users there are. The more the greater enhancements.

1.112 How to contact the author

If you happen to find a bug please contact me. Remember to state exactly the circumstances under which the bug occurred and state what computer and equipment you have. I can't do much if you say you have an A500+ so you will also have to state your Workbench and Kickstart version.

If you have translated Xtruder into a non supported language please mail the CT file to me so I can include it in future versions. Thank you.

You can find my (Email) address in How to register .

1.113 Credits

I would like to thank the following people for their great suggestions and sometimes annoying bug reports (Kasper) ;-)

In alphabetical order...

Jan Bo Andersen
Paul Browne
Stefan Daugaard
Kasper B. Graversen
Peter Klein
Henrik Lauridsen
Flemming Lindeblad
Thomas Neumann
Erik Løvendahl Sørensen

Not to forget Bjørn Moritz and Trucker/Tauno Pinni for the catalog translations.

1.114 Jan Bo Andersen

Betatester and all in all a great guy :)

1.115 Paul Browne

Leader of SHI UK Division. VERY funny guy :))) Corrected grammar in a previous documentation but unfortunately that was lost in cyberspace during a HD crash :-(But maybe next time :)

And BTW: I rule Kick Off II ; -)

1.116 Kasper B. Graversen

Bughunter SUPREME!! Mega thanx dude :) What can I say. Found "some" undocumented features once in a while. He's like 'A helping hand when needed' ;*)

1.117 Stefan Daugaard

YAB (Yet another Betatester :) Found some well hidden bugs. Geez a whole paper actually.

1.118 Henrik Lauridsen

Thanks for the great (Internet) support. Keep up the excellent work :)

1.119 Peter Klein

Also a Betatester. And responsible for suggestions leading to Xtruder being a commodity and having Arexx support. (And thereby delaying the release some months ;)

1.120 Flemming Lindeblad

Betatester. Suggested Xtruder should have locale support. Made the danish translation catalog.

1.121 Thomas Neumann alias Tax of Access

Creator of the brilliant unpack library. Also reported a couple of bugs :)

1.122 Erik Løvendahl Sørensen

SHI leader. Great support!
