

# **Xtruder**

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**COLLABORATORS**

	<i>TITLE :</i> Xtruder		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## Xtruder

### 1.1 Xtruder guide documentation

Xtruder

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All Rights Reserved

Version 3.2 - Release date 29.10.1996

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NOTE: As of 1st of January 1997 everything I develop (Vinci, Xtruder etc.)  
will very likely require Kickstart 3.0!

REMEMBER: Send new vira to me if you want to keep filevirus library  
up to date!!!

#### 1. Legal Issues

##### 1.1 -

Disclaimer

##### 1.2 -

License

#### 2. Installation

##### 2.1 -

Installation

##### 2.2 -

Authenticity

#### 3. Introduction

##### 3.1 -

Introduction to Xtruder

##### 3.2 -

Main features of Xtruder

##### 3.3 -

Getting the newest version

#### 4. Usage

##### 4.1 -

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## License

This license applies to the product called 'Xtruder', a program for the Amiga computer, published by Martin Wulffeld under the concepts of SHAREWARE, and the accompanying documentation, example files and anything else that comes with the original distribution. The terms 'program' and 'Xtruder' below, refer to this product. The licensee is addressed as 'you'.

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  - You may not disassemble, decompile, re-source or otherwise reverse engineer the program.
  - You may use the programs for a period of up to 2 weeks for evaluation. After that, you have to register or quit using the program.
  - You agree to cease distributing the program and data involved if requested to do so by the author.
  - You may charge a fee to recover distribution costs. The fee for diskette distribution may not be more than the cost to obtain a public domain diskette from Fred Fish.
-

## 1.4 Installation

Installation

Click on the installer icon to start the installation.

Manual installation is not recommended.

## 1.5 Authenticity

Authenticity

Various files in the Xtruder archive especially the main executable is PGP signed with my key (below).

To check if the files are authentic first save the key below to a separate file. Start PGP with the filename of that separate file and add my key to your keyring. Now you are ready to check the files with my key.

To check a signed file start PGP with the '.sig' file as the first argument and as the second argument the file which is related to the '.sig' file.

E.g.: 1:> PGP Xtruder.sig Xtruder

```
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6ui (Amiga)
```

```
mQCNAjAWEggAAEEAMBONVPwDx1sHsnh5Cg81R7duuVh4I0uT3q/aI1EpqBEUsSp
WGDx0h1JBKWrqBVKR1mT7Wtrm5x4rImTurKs jXtK4hCJHhJXPF j0bxjNiGi jDVfq
eEt6Pj2n7sghc/bSMH71sUx8FZEa2//hAAPIL9a5+2CxrFT/OaKcaztHngaFAAUR
tChNYXJ0aW4gV3VsZmZlbGQgPHdlbGZmZWxkQGRhdGFzaG9wcGVyLmRrPokAVQIFEDA3ufTw
aW4gV3VsZmZlbGQgPHdlbGZmZWxkQGRhdGFzaG9wcGVyLmRrPokAVQIFEDA3ufTw
L3NT6JQ2dQEBYrQB/iWfdL138msmDpvqDpwWKS5JcGA4p1f1V81teXK/87SG6ear
C7SSHaLe2SxpXK3l99nS2f2SPfuB2ZpAXWgyWPKJAJUCBRAwGbdJLOEDSkxe4QkB
AbybA/0amoBa jB7+N6lU6rBYdmWmilHYKlKgmf4JuFQji2kGC9b0RnV6MqvhDRgJ
kXnKkLIeZGb97CwL74xt.rY50eUs+IG8WgujzIiEkaW05MUceqOx5WDEK/v1KiXBi
2nW4a2+KcqlL8F5ot1Vg0Yd6K5z2M2OfMxYdQ2nuWzf6b5rtCokAlQIFEDEdhyGi
nGs7R54GhQEBTmgEALsIIEbtKTcRIBx350d3KChi5iwsul6B6caWbHB1TjP6i/FM
+uBahFLiRVQ4nO3+vJaCPkY4Nz46Lq7EREOf/dDIKCNhQ/9+mGr9colARSKWkeol
3Y/mrqBXqiRVy/zHfr0Xi7aKcdCFKJz56bU11F1hxYnO5KIPPFIOx368AWSw
=Nmn4
```

```
-----END PGP PUBLIC KEY BLOCK-----
```

## 1.6 Introduction to Xtruder

What is Xtruder

Xtruder is a virus killer with a range of unique features. First of all you are able to keep Xtruder up-to-date with the latest recognition of vira much faster than most of the other virus killers which does not use

external recognition code to find the vira. This means that you "only" have to keep track of the newest  
filevirus.library  
and Bootblock.library  
to keep Xtruder up-to-date.

The whole configuration is in itself a unique feature. Never before have you been able to configure so much in a virus killer.

Xtruder checks LhA and LZX archives unlike most other virus killers and again the configuration for archive checking leaves nothing to desire.

Xtruder's main objective is to find filevira. It is not especially great for checking your memory for vira. However, what it lacks in the memory detection department it greatly makes up for in the file detection department.

#### System requirements

- Any Amiga with Kickstart 2.04 or higher. Some features require Kickstart 3.0 and really is recommended.
- Workbench 2.1 for locale support.

## 1.7 The filevirus library

### filevirus library

You can always find the newest version of the filevirus.library on aminet in the util/virus directory.

## 1.8 Features in Xtruder

### Features

- Advanced file check interface.
  - Advanced report creation and checking facilities.
  - Advanced virus information interface.
  - Advanced file check history.
  - Can open on any public screen.
  - Font and screen mode sensitive GUI.
  - Is a commodity.
  - Can optionally check the bootblock of DMS archives.
  - Can optionally check LhA as well as LZX archives for vira.
  - Uses both the xfdmaster.library and the unpack.library for optimal recognition of crunched files.
  - Has an ARexx interface.
  - Has several memory checking and processing features.
  - Very configurable.
  - Locale support (WB 2.1 or higher).
  - Supports many 3.x features.
-

## 1.9 Getting updates of Xtruder

Getting updates

Whenever a new version of Xtruder is released it will be uploaded to:

- FlashBack:

```
Node #1 +45 43624162 24H 28k8 2:236/25.0@FidoNet
Node #2 +45 43624147 24H 28k8 2:236/75.0@FidoNet
```

- Virus Help Team Denmark:

```
Node #1 +45 46596867 24H 28k8 2:236/120.0@FidoNet
```

Magic filename: XTRUDER

You should check out Virus Help Team Denmark's homepage at:

```
http://www.geocities.com/SiliconValley/4175
```

- On Aminet in the 'util/virus' directory.

Xtruder will only be released archived with LhA!

## 1.10 How to use Xtruder

Usage

Online AmigaGuide help

If you hate reading docs you could simply experiment with Xtruder and press help whenever you need it. You can get online help for almost every window Xtruder opens but not for the file/font/etc. requesters since they are handled by the ReqTools library. E.g. try opening the

GUI settings

window and press help. The online help will appear, provided it has been installed correctly of course, with the GUI settings section in front of you. You do NOT have to close the guide to continue working in Xtruder as it is opened asynchronously.

Windows

All windows can be canceled/closed by pressing the close gadget or by pressing the escape key except for the main Xtruder window.

The positions of and sizes of all sizable windows are remembered and will be stored if you save settings.

Listviews

Scrolling in listviews besides using the scroller is possible by using the keyboard.

---

Use the up and down cursor keys to move the current selected entry. By holding down alt you will scroll two times. Hold down shift a page will be scrolled. Use control to move to either the top or bottom.

## 1.11 File check

File check

When a check has finished a bit of information will be written.

E.g.:

```
Directories:    2  Files:            8  Checked:       4
Crunched:      2  Decrunched:     1
Archived:      9  Extracted:      6
Vira found:    1  Check took:    00:01:46
```

Description

-----  
Directories - How many directories have Xtruder entered.

Files - How many files have we encountered.

Checked - How many files of the encountered were checked for virus. Archives are counted as 1 and not the number of files that were checked inside the archive.

Crunched - How many files were crunched.

Decrunched - How many of the crunched files were successfully decrunched.

Archived - How many archived files were encountered. NOT ARCHIVES!

Extracted - How many of the archived files were extracted. This number might be smaller than Archived if you for instance have set the archive filter to exclude .info files from being extracted and checked.

Vira found - How many vira were found.

Check took - How long did it take to check the files.

The reason why Checked usually is lower than Files is that Xtruder does not check certain data files (ASCII texts, pictures, etc.).

## 1.12 The menus

Menus

---

Project  
Files  
Bootblock  
Memory  
Miscellaneous  
Settings  
ARexx

### 1.13 Project menu

The Project menu  
  
List known  
  
Help  
  
System information...  
  
Hide  
  
About  
  
Quit...

### 1.14 List known menu

The List known menu  
  
Bootblock vira...  
  
File based vira...  
  
Crunchers...  
  
Patches...  
  
File types...

### 1.15 List menu

---

Known bootblock vira

Will show the bootblock vira which are known to the used version of the Bootblock.library.

## 1.16 List menu

Known file and link vira

Will show the file/link vira which are known to the used version of the filevirus.library.

## 1.17 List menu

Known crunchers

Will show the types of crunchers which are known to the used version of the unpack.library and xfdmaster.library.

## 1.18 List menu

Known file types

Will show the file types which are known to the used version of the FileID.library.

## 1.19 List menu

Known patches

Will show the patches which Xtruder know.

The recognition code for patches is situated in the xtruder.library because it will be easier for me to release an update of that library and you do not have to download a +400k archive if it is only for a new library.

To the right of the hyphen you can see who created the patch.

## 1.20 Project menu

Hide

Hides Xtruder by closing the GUI. This is only possible if Xtruder could create its commodity. Therefore you must have a valid popkey.

---

## 1.21 Help menu

The Help menu

Index...

Menus...

File check...

Bootblock interface...

Settings...

ARexx...

## 1.22 Help menu

Help

Launches the guide documentation.

## 1.23 Project menu

System information

Miscellaneous information on the settings and the libraries that Xtruder use.

Things which appear abnormal are shown in white.

## 1.24 About menu

The About menu

Xtruder...

Author...

System...

## 1.25 Project menu

Xtruder

Miscellaneous information on Xtruder. Shows which public screen you might be on.

---



## 1.26 Project menu

Author

Miscellaneous information about me the author of Xtruder.

## 1.27 Project menu

Quit

Quits Xtruder. If settings have been changed and you have not saved them a requester will inform you about that and give you the possibility to either Save them, Quit or (only in some cases) Cancel quit.

## 1.28 Files menu

The Files menu

Check prespecified...

List prespecified...

Check files...

Repair...

Show CRC...

Reports...

## 1.29 Files menu

Check prespecified

Checks the prespecified entries. See Prespecified settings

## 1.30 Files menu

List prespecified

Checks the prespecified entries. See Prespecified settings

---

### 1.31 Files menu

Check files

Select the files and directories you want to check.

### 1.32 Files menu

Repair

Repair a file.

### 1.33 Files menu

Show CRC

Show the CRC value of a file. This way future releases of e.g. Xtruder have an extra security factor because I can say on the public networks what the CRC value, using this function, is of the next Xtruder and you can then check it with your current version and if the two numbers do not match something is wrong.

### 1.34 Files menu

Reports

The report interface has been completely changed since Xtruder 2.x. Reports generated with Xtruder 2.x are obsolete.

A report is a fingerprint of the characteristics of one or more files. This is intended to be used to trap vira. An infected file is with 100% certainty different from the original non-infected file and a report will inform you about these differences. Wether it's the size, protection bits, date, comment or most importantly the contents of the file, a file that is different than what was reported during creation will not pass Xtruder.

The main report window consists of 4 buttons in top, the reports path gadget and the reports listview.

If you want to create a new report press Create. The create report window will open and start the creation.

If you want to update a report created with the above function you should select a report in the reports listview and press Update.

To check a report select it in the listview via the cursor keys or by clicking on it and then press Check or return on the keyboard. You can also doubleclick on a report.

---

If you want to delete a report select it and click on Delete.

To exit the window press escape or click on the window's close gadget.

## 1.35 Creating/updating reports

Creating/updating reports

In top of the create window you can see current path and the current file which characteristics is being saved. Below there is a Stop and a Pause gadget which need no further introduction. Finally, there is the error listview which will inform you of things that went wrong while creating the report. For instance to create a complete fingerprint of the contents of a file it will have to be loaded into memory. If you haven't got enough memory the fingerprint is not complete and you will be informed about it in the listview. Other information (date, comment etc.) will still be saved.

You may stop a report while creating. Xtruder will not delete what it did manage to create so you can actually check the report even if you have stopped it.

To exit the window press escape or click on the window's close gadget.

## 1.36 Checking reports

Checking reports

The structure of the check window is very similar to the create window.

In the top you can see which file and the path of the file which is currently being checked.

Below you'll find the usual stop and pause gadgets. Beside them you'll find Save history. This gadget will be ghosted until the check stops or if there's nothing to save.

If Xtruder finds a mismatch (a file that differs from the original) it will ask you what to do with it. You have the choice of:

Copy to

Brings up a requester where you may select a path to copy the mismatch to. If you cancel the requester the check will continue.

Copy all to

Same as above but all the following mismatches will automatically be copied to the selected path.

Delete

---

Deletes the file. No trial, no jury, just straight to execution.

Ignore

Ignores the file.

Ignore all

Ignores the file and all the following mismatches.

The listview shows all the mismatches. If there are any the Save history gadget will be unghosted when the check finishes and you may then press this gadget to save the history of mismatches.

To exit the window press escape or click on the window's close gadget.

## 1.37 Bootblock menu

The Bootblock menu

Interface...

Check

Install  
Show

## 1.38 Check menu

The Check menu

DF0:...

DF1:...

DF2:...

DF3:...

DMS...

## 1.39 Install menu

The Install menu

DF0:...

---

```
DF1:...
```

```
DF2:...
```

```
DF3:...
```

## 1.40 Show menu

The Show menu

```
DF0:...
```

```
DF1:...
```

```
DF2:...
```

```
DF3:...
```

```
DMS...
```

## 1.41 Bootblock menu

Bootblock interface

It should not be too hard finding out what kind of function the individual buttons perform.

The Show buttons shows the bootblock of DF0:-DF3: or a DMS archive.

The Check buttons checks the bootblock of DF0:-DF3: or a DMS archive.

The Install buttons installs a bootblock to DF0:-DF3:. When first pressed it will bring up a window with a range of custom AmigaDOS bootblocks where you can select the bootblock to install. From here you also have the possibility to select a bootblock from a file by clicking on Select custom bootblock. If you have selected a custom bootblock in the

```
bootblock settings
```

```
you can just
```

hit Custom bootblock and that bootblock will be installed.

The bootblock listview shows the last read bootblock in both ASCII and in hex/ASCII mode. You can scroll up and down using the keyboard.

The Load and Save buttons below the bootblock listview are used to load and save bootblocks.

## 1.42 Bootblock menu

---

Check bootblock

Opens the bootblock interface and starts checking the bootblock of a DOS disk.

### 1.43 Bootblock menu

Check bootblock

Opens the bootblock interface and starts checking the bootblock of a DMS archive.

### 1.44 Bootblock menu

Install bootblock

Opens the bootblock interface and starts the install process on the DOS disk.

### 1.45 Bootblock menu

Show bootblock

Opens the bootblock interface and shows the bootblock of a DOS disk.

### 1.46 Bootblock menu

Show bootblock

Opens the bootblock interface and shows the bootblock of a DMS archive.

### 1.47 Memory menu

---

The Memory menu

Check vectors...

Check LVO...

Clear

Show

## 1.48 Memory menu

Check vectors

Checks the CoolCapture, ColdCapture, WarmCapture, KickTagPtr and KickMemPtr vectors to see if one or more of them points to something in the RAM area. If so a requester will ask if they should be cleared.

## 1.49 Memory menu

Check LVO

Some vira patches functions in libraries. This could for instance be the Write() function so that every write would function abnormally. Therefore it is a good idea to once in a while check the vectors. Now what the hell is vectors you might curse. Well, vectors are e.g. the offset of a function in a library. E.g. the offset for Write() in the dos.library is -48.

## 1.50 Clear menu

The Clear menu

All...

CoolCapture...

ColdCapture...

WarmCapture...

KickTagPtr...

KickMemPtr...

## 1.51 Clear menu

All

Clears the CoolCapture, ColdCapture, WarmCapture, KickTagPtr and KickMemPtr vectors.

## 1.52 Clear menu

CoolCapture

Clears the CoolCapture vector.

## 1.53 Clear menu

ColdCapture

Clears the ColdCapture vector.

## 1.54 Clear menu

WarmCapture

Clears the WarmCapture vector.

## 1.55 Clear menu

KickTagPtr

Clears the KickTagPtr vector.

## 1.56 Clear menu

KickMemPtr

Clears the KickMemPtr vector.

## 1.57 Show menu

---



The Show menu

Libraries...

Devices...

Resources...

Ports...

Semaphores...

Tasks...

## 1.58 Show menu

List of libraries

Show a list of libraries in memory.

## 1.59 Show menu

List of devices

Show a list of devices in memory.

## 1.60 Show menu

List of resources

Show a list of resources in memory.

## 1.61 Show menu

List of ports

Show a list of public ports created.

## 1.62 Show menu

List of semaphores

Show a list of public semaphores created.

---

## 1.63 Show menu

List of tasks

Show a list of tasks.

## 1.64 Miscellaneous menu

The Miscellaneous menu

Virus information...

History

## 1.65 Miscellaneous menu

Virus information

You need to have amigaguide.library installed to use this function.

Perhaps you are familiar with the program 'Virus Info Base' generally known as 'VIB'? If so no further introduction should be necessary :-)

This is simply a virus-encyclopaedia more or less.

You must specify in the Descriptions path where the descriptions lie. All descriptions must lie in that path. Whenever an analysis or a note about a virus is posted in e.g. a newsgroup you should save this as a file in the Descriptions path.

By pressing Show all the listview in the bottom of the window will be filled with all the files in the Descriptions path. By doubleclicking or pressing return on a file Xtruder will open it in a AmigaGuide window. You can also configure it to use an external viewer by selecting a viewer using the popup gadget beside the External viewer string gadget. You must remember to add "%s" including the quotation marks to the string. This tells Xtruder where to put the filename of the description.

As you can see there are 3 search string gadgets so you can search for specific strings in the descriptions. E.g. if you wanted to know about the 'very dangerous' vira you should write that string in one of the search string gadgets and press Search. Xtruder then searches through all the files in the Descriptions path for that string in the descriptions. Those files that has the string will be shown in the listview. To take the search thing a step further you could write 'dangerous' in the first gadget, 'format' in the second gadget and to top it all of 'file' in the last. This will give you a list of all files containing 'dangerous', 'format' and 'file'.

---

## 1.66 History menu

The History menu

Clear

Show...

Save...

## 1.67 Miscellaneous menu

Clear history

Clears the history.

## 1.68 Miscellaneous menu

Show history

Shows the global history in a resizable window.

## 1.69 Miscellaneous menu

Save history

Save history to a file.

## 1.70 Settings menu

The Settings menu

GUI...

Startup...

Miscellaneous...

Paths...

History...

Bootblock...

ARexx...

File check  
Load...  
Save...  
Save as...

## 1.71 Settings menu

### GUI

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

### Screen mode

Set the screen mode along with width, height, depth and optional autoscroll.

### Public screen name

The name of the public screen Xtruder should open on. If it does not find the screen it will open its own screen.

### Screen font

This font is used for most of the GUI. It may be a proportional font.

### Text font

This font is used for writing in the main window. It can not be a proportional font. It is also used for most listviews. E.g. the Libraries... window since a proportional font would interfere with the visual representation (columns being misaligned).

### Requester font

This font is used for text requesters. Some requesters can sometimes be very wide so a slim font might be good here.

### Background pattern

Under OS3.x you can select a pattern for the rather dull background of the main window. The picture you select is read using datatypes and it may therefore be any picture supported by your datatypes, not just ILBM files. The picture is remapped to the number of colors so if it doesn't look right change the depth of the screen.

### Palette

Set the colors to suit your personal taste.

### Scroller width

The width of the scroller in the listviews. Some might like a 'fat' one :)

Hide app icon

I think it is few who actually uses an AppIcon so why have one which does nothing except lying around on the Workbench?

## 1.72 Settings menu

Startup

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Startup script

This is the ARexx script which is executed every time Xtruder is started.

Execute startup script

Not in all cases does one want to have the startup script executed at startup so instead of clearing the above setting you can simply tick this checkbox gadget.

Check prespecified

Check prespecified at startup.

Check vectors

Check vectors at startup.

Show system information

Tick this option if you want the system information window to be shown at startup.

## 1.73 Settings menu

Miscellaneous

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Popkey

The popkey for Xtruder. Pressing this key combination will make Xtruder pop out of its possible hidden state and thereby appear in front of your very eyes.

---

### Priority

This is the priority of the commodity and NOT the program as some might think.

### Pop up at start

Tick this if you want a full featured GUI when you start Xtruder :)

### Stay hidden during checks

This orders Xtruder to remain iconified/hidden when checking files. Handy if you use Xtruder for checking uploaded files. I.e. it would not pop up all the time.

## 1.74 Settings menu

### Paths

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

NOTE: DO NOT add a trailing slash to any of the paths because Xtruder will then use the parent path!

### Archive extract path

The path where archives are extracted to.

This path MUST be present before you may begin checking files.

### File decrunch path

The path where crunched programs and data files are decrunched to.

### Virus path

The path where virus is (optionally) copied to.

This path MUST be present before you may begin checking files.

### Recheck path

The path where files/archives that needs to rechecked are copied to. For instance encrypted files are copied to this path if you have not ticked Decrunch encrypted files.

This path MUST be present before you may begin checking files.

Do not specify a path inside on of the other paths! E.g. if your File decrunch path is T: then you should NOT specify 'T:RecheckFiles' as your recheck path.

### Auto create above paths

---

Instead of tedious requesters at startup and messing around with your startup-sequence tick this and the above paths will be created automatically at startup or when you press okay in this window.

#### Auto delete above paths

If ticked Xtruder will automatically delete the above paths when quitting.

#### Guide path

The path where this file is situated :-) If Xtruder can not find it there it will check its own directory. Remember you do not have to close the guide in order to work in Xtruder. Try for instance to press help while you are selecting a menu item.

#### Descriptions path

This path should point to the place where you have all your virus descriptions and furthermore the descriptions must be placed in sub directories which start with the letter that the name of the virus starts with! E.g. 'DH1:Descriptions'. Your directory tree should then look like this:

```
DH1:
  Descriptions
    A
    B
    C
    .
    .
    Z
  Demos
    .
    .
```

## 1.75 Settings menu

### History

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

### History path

The path of the history files.

### History file

The history file. E.g. 'Xtruder.HISTORY'. If the file already exists a new file with a number extension will be created instead. I.e. if 'Xtruder.HISTORY' exists the new history will be saved as 'Xtruder.HISTORY.1'.

Use date and time as filename

---

The current date and time will be used as filename.

#### Append

Instead of creating a new history file for every save you can tick this to make Xtruder append the history to the History file.

#### Request filename

When the Save method (described below) has been set to save history Xtruder will first create the filename according to the settings and then show it in a filerequester so you can confirm the save.

#### Max entries

Maximum number of lines of history. If set to 0 only your memory sets the limit.

#### Save method

How history should be saved after a file check.

##### Don't save

Do not save after a file check.

##### After action

Save history after a file check.

##### After action then flush

Save history after a file check and then flush history. You should set Save method to this if you have ticked the Append button. Otherwise old histories will be saved too instead of just the new ones.

#### File check

Tick if file check activities should be remembered.

## 1.76 Settings menu

#### Bootblock

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

#### Custom bootblock

A custom bootblock file. Should be at least 1024 bytes long.

#### Check inserted disks

---



Tick if all inserted DOS disks should be checked for bootblock virus.

No interface

Tick if you do not want the bootblock interface window to open whenever a disk is inserted.

## 1.77 Settings menu

ARexx

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Items

The names of the items.

Name

The name of the selected item.

Add

Add a script or a separator bar.

Remove

Remove a script or a separator bar.

Up

Move an entry upwards.

Down

Move an entry downwards.

Sort alphabetically

Sort the entries alphabetically.

Script

The script to execute.

## 1.78 File check menu

The File check menu

Prespecified...

---

Miscellaneous...  
  Unpacking...  
  
Archives...  
  
Information...  
  
PBC...  
  
Check window...

## 1.79 File check menu

Prespecified

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Add

Add a path/file or several to the list.

Remove

Remove the current highlighted entry from the list.

Sort

Sort entries alphabetically.

## 1.80 File check menu

Miscellaneous

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

File filter

A normal pattern string. E.g. '~(#?.info)' would not check files with '.info' in the end of the filename.

Archive filter

Same function as above except that this filter only applies for files within archives.

Do with virus found

When a virus is found there is a number of actions Xtruder can automatically perform on it. When referring to 'file' it does not

necessarily means the virus if the virus was found within an archive. Then 'file' will refer to the archive which holds the file.

#### Disable

Removes the executable bit from the protection bits of the file preventing it from being executed by accident.

#### Delete

Deletes the file. If a virus is found within an archive it deletes the whole archive!

#### Rename

Renames the file. The Rename extension described below will be added to the filename. If the Rename extension string is empty a requester will appear so you can enter the new name.

#### Comment

Comment the file with the Comment for virus string described below. If that string is empty a requester will appear so you can enter a comment.

#### Copy

Copy the file to the  
virus path  
.

#### Request

Request an action.

#### Nothing

Ignore the infected file.

#### Do with virus copied

If you copy an infected file/archive there are also a couple of actions Xtruder may perform on the copied file.

#### Disable

Removes the executable bit from the protection bits of the copied file preventing it from being executed by accident.

#### Rename

Renames the copied file. The Rename extension described below will be added to the filename. If the Rename extension string is empty a requester will appear so you can enter the new name.

#### Comment

Comment the copied file with the Comment for virus string described below. If that string is empty a requester will appear so you can enter a comment.

Nothing

Ignore the infected file.

Comment for virus

The comment used for a virus infected file or archive.

Rename extension

The rename extension for a virus infected file archive.

Path indention

When a path is encountered in a file check it indents the files of that path a number of positions. This number can range from 1 to 10.

Auto deprotect

Tick if read protected files should be deprotected so the file can be read and checked. Recommended.

Enter directories

Tick if Xtruder should enter sub directories.

Auto path check

Tick if an inserted disk should have its files checked. You must also tick

    Check inserted disks  
    otherwise the disk insertion will not be  
recognized.

Suppress system messages

If ticked all system messages such as 'Not enough memory' will be suppressed during file checks.

## 1.81 File check menu

Unpacking

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

When decrunching use

This feature is used to specify which decrunch libraries Xtruder should use to decrunch executables and data files during checking operations. With all other operations it exclusively uses the unpack.library.

---

Unpack then XFD

Xtruder first checks if `unpack.library` can identify a file as crunched and if not tries the `xfdmaster.library`.

XFD then Unpack

Xtruder first checks if `xfdmaster.library` can identify a file as crunched and if not tries the `unpack.library`.

Only Unpack

Xtruder only checks if `unpack.library` can identify a file as crunched.

Only XFD

Xtruder only checks if `xfdmaster.library` can identify a file as crunched.

Extract archives

Tick if archives should be extracted and checked. When extracting please be aware of the fact that a file which have the same name as a file you are about to extract WILL BE OVERWRITTEN. LhA or LZX will not ask if it should overwrite it!!!

Ask before extracting files

Tick if you want to confirm extracting of archives.

Ask before deleting extracted files

Tick if you want to confirm deletion of extracted files. (To avoid confusion files are extracted to  
archive extract path  
.

Decrunch executables

Tick if executables should be decrunched.

Decrunch data files

Data files are usually crunched text files but XPK crunched programs will be recognized as data files because of the special crunchsystem. Therefore, you should tick this option if you have a lot of XPK crunched programs.

Ask before decrunching files

Tick if you want to confirm decrunching of executables.

Ask before deleting decrunched files

Tick if you want to confirm deletion of decrunched files.

---

Decrunch encrypted files

Crunched files are rarely encrypted but in case they are a requester will pop up and ask for the password. This is not good if you use Xtruder for checking uploaded files (in case your are a sysop :) because it would "hang" until you to enter the password. Therefore you may tick this and encrypted files will be copied to  
corrupt path  
so you can check them later.

Check DMS bootblock

Tick if Xtruder should check the bootblock of DMS archives for bootblock virus.

## 1.82 File check menu

Archives

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Extract LhA

Tick if LhA archives should be extracted.

Extract routine

Can be either 'Internal 1' or 'Internal 2'.

Internal 1

Xtruder extracts all files to the  
Archive extract path

.  
Then checks all the files matching archive filter.

This routine is much faster than Internal 2 but uses more memory.

Internal 2

Xtruder makes a list of the files in the archive matching the archive filter, then extracts each file after eachother, checks it, checks if the file is crunched and if so decrunches it and checks it as uncrunched.

Max size

This specifies the maximum size an extracted file from a LhA archive may have. If for instance you specify 15200 then all files which when extracted exceeds 15200 bytes will not be extracted.

Extract LZX

---

Tick if LZX archives should be extracted.

Extract routine

Can be either 'Internal 1' or 'Internal 2'.

Internal 1

Xtruder extracts all files to the  
Archive extract path

Then checks all the files matching archive filter.

This routine is much faster than Internal 2 but uses more memory.

Internal 2

Xtruder makes a list of the files in the archive matching the archive filter, then extracts each file after eachother, checks it, checks if the file is crunched and if so decrunches it and checks it as uncrunched.

Max size

This specifies the maximum size an extracted file from a LZX archive may have. If for instance you specify 15200 then all files which when extracted exceeds 15200 bytes will not be extracted.

Output

The output used when extracting archives with the internal method. If Xtruder finds a '%s' in this string it will replace it with the name of the archive it is extracting.

## 1.83 Information menu

Information

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Size

Size information will be shown during a file check. Please note that the more information you want to see the slower the check will be.

File type

The file type will be shown during a file check.

Protection bits

The protection bits will be shown during a file check.

Date

---

The date will be shown during a file check.

## 1.84 File check menu

PBC

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

PBC bits

PBC is an abbreviation for 'Protection Bits for Checked files'. I think it is pretty obvious what it is for. For instance you could use PBC only on archives. Then if you check the a directory with a lot of archives once more Xtruder can skip the archives which has the exact PBC bits set. In my case I have a download directory and every time I have downloaded some files I simply check the whole directory except the archives which have been checked before which are skipped. Simple but effective.

Check files with PBC set

Tick if files with PBC bits set should be checked. You should tick this when you get a newer version of the filevirus.library whereby you might find vira in the already checked archives/files.

Set PBC on executables

Tick if executables should be marked as checked.

Set PBC on archives

Tick if archives should be marked as checked.

## 1.85 Check window menu

Check window

Pressing Okay affects Xtruder immediately. Pressing Cancel will abort the changes you have made.

Auto close

Tick this if you want the check window to automatically close when a check has finished.

Memory information

Tick this if you want real time updates of the amount of memory left

Check information

---



Tick this if you want real time updates of the number of files checked, files decrunched etc.

#### History

If ticked you will be able to see the history of the file check with real time updates and in Technicolor :-)

#### Auto scroll

If this is ticked the history listview will automatically scroll down.

#### Warnings

If ticked another listview will be shown with what Xtruder regards as "dangerous" settings. Not dangerous in the sense that it will wipe your HD but dangerous in the sense that you might not find all vira. For instance if you haven't ticked Decrunch executables you will be informed about it since vira can hide in crunched files.

### 1.86 Settings menu

#### Load

Load settings. Requests the filename of the settings file you want to load.

### 1.87 Settings menu

#### Save

Save settings to 'ENV:Xtruder/Xtruder.prefs'. The size and coordinates of all windows opened by Xtruder will also be saved.

### 1.88 Settings menu

#### Save as

Save settings under a another name. The size and coordinates of all windows opened by Xtruder will also be saved.

### 1.89 ARexx menu

The ARexx menu

Execute script...

---

## 1.90 ARexx menu

Execute script

Choosing this will pop up a file requester where you can select an ARexx script to run. The path and filename are not shared with other filerequesters and will be saved along with settings.

## 1.91 The CLI

The CLI

You can type 'Xtruder ?' to see the command line interface of Xtruder.

It looks like this:

```
F=FILE/M,R=PRESPECIFIED/S,V=VECTORS/S,P=PUBSCREEN/K,E=EXIT/S
```

FILE

You may specify more than one file/directory here. If you also specify the 'EXIT' keyword Xtruder will return to the CLI with one of the following codes:

0 if the file(s) was OK or the number of vira found.

PRESPECIFIED

Checks prespecified entries.

VECTORS

Checks library vector offsets.

PUBSCREEN

Name of public screen to appear on.

EXIT

If you want Xtruder to return immediately to the CLI after having processed the other arguments specify this keyword. This is required if you want to make any use of the above mentioned return codes.

## 1.92 Environment variables

Special paths

You may use a file to specify an alternative path for the settings file (Xtruder.prefs) and the keyfile.

For the settings file the name is 'PREFSLOCATION' and for the keyfile

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it is 'KEYFILELOCATION'.

The files must be placed in either the directory from where Xtruder is run or in 'ENV:Xtruder'.

## 1.93 The ARexx interface

ARexx commands

The address of the Xtruder ARexx port is 'XTRUDER'. REXXMAST must have been started in order for this port to be present.

The commands:

SHOW  
HIDE  
GETFILE  
GETPATH  
REQUESTUSER  
REQUESTSTRING  
REQUESTNUMBER  
CHECKPRESPECIFIED  
CHECKSPECIFIED  
CHECKFILES  
CHECKVECTORS  
NUMBERVIRAFFOUND  
GETVIRUSNAME  
GETVIRUSFILENAME  
FLUSHVIRUSFOUNDLIST

## 1.94 ARexx command: SHOW

SHOW

NAME

SHOW - Show Xtruder's screen.

SYNOPSIS

---

SHOW

FUNCTION

Shows the GUI.

INPUTS

None

RESULTS

None

## 1.95 ARexx command: HIDE

HIDE

NAME

HIDE - Hide Xtruder's screen.

SYNOPSIS

HIDE

FUNCTION

Hides Xtruder's interface.

INPUTS

None

RESULTS

None

## 1.96 ARexx command: GETFILE

GETFILE

NAME

GETFILE - Get a filename

SYNOPSIS

GETFILE T=TITLE/K,P=PATH/K,F=FILE/K

FUNCTION

Get a filename from the user.

INPUTS

Title - The title of the requester.

Path - The path which to position the requester in. If you know that a file always is in 'S:' you could pass 'S:' here to unburden the user.

File - A standard filename without leading path.

RESULTS

If the requester was canceled RC will be 5. Otherwise 0 and RESULT

---

will then hold the selected filename including possible leading path.

## 1.97 ARexx command: GETPATH

GETPATH

NAME

GETPATH - Get a path

SYNOPSIS

GETPATH T=TITLE/K,P=PATH/K

FUNCTION

Get a path from the user.

INPUTS

Title - The title of the requester.

Path - The path which to position the requester in.

RESULTS

If the requester was canceled RC will be 5. Otherwise 0 and RESULT will then hold the selected path.

## 1.98 ARexx command: REQUESTUSER

REQUESTUSER

NAME

REQUESTUSER - Request a response from the user

SYNOPSIS

REQUESTUSER T=TITLE/K,P=PROMPT/K/A,R=RESPONSE/K

FUNCTION

Request a response from the user.

INPUTS

Title - The title of the requester. Default is 'Xtruder Information'.

Prompt - The body text.

Response - The gadgets. Default is 'Okay'. To have several responses separate the gadget texts with vertical bars. E.g.:  
'Okay|Maybe|Cancel'.

RESULTS

For RESPONSE passed as Okay|Maybe|Cancel it will return 1 for Okay, 2 for Maybe and 0 for Cancel. The rightmost gadget will always return 0.

## 1.99 ARexx command: REQUESTSTRING

---

## REQUESTSTRING

## NAME

REQUESTSTRING - Request a string from the user

## SYNOPSIS

REQUESTSTRING T=TITLE/K,P=PROMPT/K,S=STRING/K,M=MAXBUFLN/N,  
A=ALLOWEMPTY/S,R=RESPONSE/K

## FUNCTION

Get a string from the user.

## INPUTS

Title - Refer to  
REQUESTUSER  
Prompt - Refer to  
REQUESTUSER  
String - A default string to put in the string gadget.  
Maxbuflen - Max number of characters allowed in string. May not be  
more than 255. If not specified it defaults to 255.  
May not be 0.  
Allowempty - Usually pressing return with an empty string gadget will  
cancel the requester. Specify ALLOWEMPTY for allowing  
empty strings.  
Response - Refer to  
REQUESTUSER  
RESULTS

For RESPONSE passed as Okay|Maybe|Cancel it will return 1 for  
Okay, 2 for Maybe and 0 for Cancel. The rightmost gadget will  
always return 0.

**1.100 ARexx command: REQUESTNUMBER**

## REQUESTNUMBER

## NAME

REQUESTNUMBER - Request a number from the user

## SYNOPSIS

REQUESTNUMBER T=TITLE/K,P=PROMPT/K,M=MIN/N,X=MAX/N,N=NUMBER/N,  
S=SHOWDEFAULT/S,R=RESPONSE/K

## FUNCTION

Get an integer number from the user.

## INPUTS

Title - Refer to  
REQUESTUSER  
Prompt - Refer to  
REQUESTUSER  
Min - Minimum value allowed.  
Max - Maximum value allowed.  
Number - A default number to put in the integer gadget.  
Showdefault - If specified the value in NUMBER will be shown and

otherwise hidden.  
Response - Refer to  
REQUESTUSER  
RESULTS

For RESPONSE passed as Okay|Maybe|Cancel it will return 1 for Okay, 2 for Maybe and 0 for Cancel. The rightmost gadget will always return 0.

## 1.101 ARexx command: CHECKPRESPECIFIED

CHECKPRESPECIFIED

### NAME

CHECKPRESPECIFIED - Check prespecified entries

### SYNOPSIS

CHECKPRESPECIFIED

### FUNCTION

Check the prespecified entries. See  
prespecified settings

### INPUTS

None

### RESULTS

RC holds the number of vira found. If RC is negative an error occurred before the check could begin. I.e. no files were checked.

Possible error codes:

- 1 : Nothing to check.
- 2 : One or more check paths were not found.
- 3 : Could not open control window. If this happens you are very likely low on chip memory.
- 4 : Not enough memory.

## 1.102 ARexx command: CHECKSPECIFIED

CHECKSPECIFIED

### NAME

CHECKSPECIFIED - Specify files from a filerequester to check

### SYNOPSIS

CHECKSPECIFIED

### FUNCTION

A requester pops up and you will be able to select the directories and files you want to check.

---

## INPUTS

None

## RESULTS

RC holds the number of vira found. If RC is negative an error occurred before the check could begin. I.e. no files were checked.

Possible error codes:

- 1 : Nothing to check.
- 2 : One or more check paths were not found.
- 3 : Could not open control window. If this happens you are very likely low on chip memory.
- 4 : Not enough memory.

### 1.103 ARexx command: CHECKFILES

## CHECKFILES

## NAME

CHECKFILES

## SYNOPSIS

CHECKFILES F=FILE/M/A

## FUNCTION

Check the specified files/directories as were they e.g. selected via a file requester. This is great for BBS use.

You may also pass directory names.

## INPUTS

File - The files/directories to check.

## RESULTS

RC holds the number of vira found. If RC is negative an error occurred before the check could begin. I.e. no files were checked.

Possible error codes:

- 1 : One of the files/directories were not found.
- 2 : One or more check paths were not found.
- 3 : Could not open control window. If this happens you are very likely low on chip memory.
- 4 : Not enough memory.

### 1.104 ARexx command: CHECKVECTORS

## CHECKVECTORS

## NAME

CHECKVECTORS

---



SYNOPSIS  
CHECKVECTORS

FUNCTION  
Checks vectors.

INPUTS  
None

RESULTS  
None

## 1.105 ARexx command: NUMBERVIRAFFOUND

NUMBERVIRAFFOUND

NAME  
NUMBERVIRAFFOUND

SYNOPSIS  
NUMBERVIRAFFOUND A=ALL/S

FUNCTION  
Xtruder keeps track of the vira it has found during all the file checks. Not just the last check. If you omit the ALL argument this function will return the number of vira found in the last check it made. If ALL is specified it will return the number of vira found in all the checks.

INPUTS  
All - Get the number of vira found in all checks.

RESULTS  
The number is returned in Result.

## 1.106 ARexx command: GETVIRUSNAME

GETVIRUSNAME

NAME  
~GETVIRUSNAME - Get a virus name from the virus list

SYNOPSIS  
~GETVIRUSNAME N=NUMBER/N/A

FUNCTION  
Returns the virus name of a virus in the virus list.

INPUTS  
Number - Number is a number between (both included) 1 and the number of vira found meaning 1 is the last virus found, 2 the last

---

but one and so forth.

#### RESULTS

The virus name is returned in Result.

### 1.107 ARexx command: GETVIRUSFILENAME

GETVIRUSFILENAME

#### NAME

GETVIRUSFILENAME N=NUMBER/N/A

#### SYNOPSIS

GETVIRUSFILENAME N=NUMBER/N/A

#### FUNCTION

Returns the filename of a virus in the virus list.

#### INPUTS

Number - Number is a number between (both included) 1 and the number of vira found meaning 1 is the last virus found, 2 the last but one and so forth.

#### RESULTS

The filename is returned in Result.

### 1.108 ARexx command: FLUSHVIRUSFOUNDLIST

FLUSHVIRUSFOUNDLIST

#### NAME

FLUSHVIRUSFOUNDLIST

#### SYNOPSIS

FLUSHVIRUSFOUNDLIST

#### FUNCTION

This command removes the entries of virus list.

#### INPUTS

None

#### RESULTS

None

### 1.109 HowToRegister

How to register Xtruder

By registering this piece of software you provide me with resources and

---

incentive to further development.

Every 10th (20th,30th...etc.) will get his/hers money back AND a free keyfile for Vinci.

For instance if your keyfile happened to be nr. 90 you will receive your Xtruder keyfile together with a total refund AND a free keyfile for Vinci.

Now do not try to calculate the next keyfile number by looking in the registered users list :-). It is not possible to do so since certain people have got one for free and they are therefore not listed there.

To register, FIRST fill out the registration form which is included in the distribution as 'Xtruder.regform' and send it to me to one of the addresses below.

THEN there are 3 ways you can send the registration fee to me.

1. The first and easiest way (in my opinion) is to send cash to my snailmail address below.

But keep in mind that it is at your own risk if you do that. I cannot be responsible for lost letters. But just remember to wrap a piece of paper around the cash so the possibly corrupt mailman is unable to see what is inside the envelope.

The registration fee may be one of the following:

- 150,- DKR (Danish kroners)
- 150,- SKR (Swedish kroners)
- 150,- NKR (Norwegian kroners)
- 40,- DEM (German D-mark)
- 15,- GBP (British pound sterling)
- 25,- USD (US-Dollars)

or the same amount as 150 DKR in any other currency!

NO COINS (except Danish) accepted!!

2. Eurocheque

Send a Eurocheque payable to 'Martin Wulffeld' with the amount of 150 DKR (Danish kroners).

If you send any other kind of cheque please include an extra 5 GB pounds since the bank charges outrageous fees.

3. Transfer the equivalent of 150,- DKR to my bank:

Unibank  
Praestoe Afdeling  
Adelgade 76  
4720 Praestoe  
Denmark

Name: Martin Wulffeld

---

Reg. number: 0047  
Account number: 4482-600-846

=====

ASAP on receipt of your registration I will send a personalized keyfile to you on a disk. But things take time so please allow up to 8 weeks for delivery, thanks = absolute, extremely worst case. Usually from you sending the registration till you get the key will not take more than 2 weeks.

Put the keyfile in your L: assign or use the environment variable 'ENV:Xtruder/KEYLOCATION' to specify an alternative place for it. Place the path of the keyfile in it.

You may not sell or give away the keyfile. The keyfile will make all (future) locked features available to you.

- =====
- Snail mail: Martin Wulffeld  
Odensevej 121, 2 TV  
4700 Naestved  
Denmark
  - Internet: wulffeld@geocities.com (prefered)  
dm9523@nhs.dk
  - IRC: As Alive usually on undernet.
  - FidoNet: 2:236/25.4
  - AmigaNet: 39:141/132.4
  - Phone: +45 (55) 77 01 37

## 1.110 What do I get?

If I register what do I get?

- A keyfile which will unlock the current and future locked features in Xtruder. These are at the moment:
    - LhA archive checking.
  - Possibly your money back and a free keyfile for Vinci. Check  
How to register  
.
  - A disk with the latest version of Vinci, Xtruder, Leagues and the rest of my productions.
-

## 1.111 Registered users of Xtruder

Registered users

In alphabetical order:

- Alex Holst
- Bjørn Moritz
- David P. Naylor
- Flemming Slabiak
- Jan Andersen
- Jari Karjalainen
- Jen Allen
- John Marchant
- Kenneth Perto
- Michael L. Creasy
- Rv van der Hoek
- Tauno Pinni

## 1.112 Acknowledgements

Acknowledgements

- LhA is copyright © 1991,92 Stefan Boberg.
- LZX is copyright © 1995 Data Compression Technologies.

Thanks to Olaf 'Olsen' Barthel for releasing the source to 'term'.

Many thanks to the following people for their bug reports, suggestions, arexx scripts, catalog translations, helpfulness, etc.:

- Alex Holst for great support/beta testing as ever.
- Jens Heller Sørensen for beta testing.
- Kenneth Lund Sørensen for beta testing.
  
- Anders Wegge Jakobsen for ARexx script to DLG Pro BBS system.
- Bjørn Reese for the filevirus.library.
- Erik Løvendahl Sørensen for SHI. SHI has been dissolved - R.I.P.
- Georg Hörmann for the xfdmaster.library.
- Jan Andersen & VIRUS HELP for lots of support.
- Jan Nielsen for Danish catalog translation.
- Johan Eliasson for the Bootblock.library.
- John Philip Marchant for ARexx script to TransAmiga BBS system.
- Kenneth Perto for beta testing and ARexx script to Zeus BBS system.
- Matthias Andree.
- Oliver Lange for the FileID.library.
- Tauno Pinni for the Swedish catalog translation.
- Thomas Neumann for the unpack library.
- Walter Dörwald for his example backfill hook source.
  
- Everybody I forgot. Bug reporting people especially :)

## 1.113 History

### History of Xtruder

Histories for 1.0 to 2.5 removed to save space.

Version:

3.0

3.1

3.2

## 1.114 Version 3.0 : 25.9.1996 : 182376 bytes

### Changes

- First of all: Everything has changed. Do not expect anything to act as it did in earlier versions. Especially check your ARexx scripts :-)
  - Menu design almost completely changed.
  - On public screens Xtruder will just reside as a title bar.
  - File check GUI. Looks pretty damn nice if I may say so :)
  - File check GUI settings created so you can customize it to your likings.
  - When a string gadget with a popup gadget is active pressing cursor down will act as a click on the popup gadget.
  - Pressing cursor down in a public screen/file/dir string gadget will cause a requester to pop up.
  - Corrupt path changed to Recheck path.
  - When Xtruder is quitting it will in case the settings have been changed ask if the settings should be saved. You also have the possibility to cancel and return to Xtruder.
  - Added miscellaneous menuitems for easy access to certain sections in this guide.
  - Virus Information window and accompanying functions completely rewritten.
  - Under OS3 the history window shows the file check in multiple colors instead of only using black.
  - Completely rewrote the report system. Reports created with older versions are obsolete and can not be used by Xtruder 3.
  - Created a comprehensive bootblock handling interface. Most bootblock routines rewritten. The bootblock is automatically shown when read and in both ASCII and hex format.
  - Bootblock ARexx commands removed.
  - It is now optional whether you want to suppress system messages during file checks or not.
  - Time check removed.
  - Checking a report at startup is not possible anymore. Use an ARexx script to do it :)
  - Online help is now available at more windows.
-

## Bug fixes

- Prespecified settings could crash sometimes. Nicholas Clarke.
- Could not show the window with the public screens list. Alex Holst.

**1.115 Version 3.1 : 10.10.1996 : 182408 bytes**

## Changes

- Included Swedish catalog translation by Tauno Pinni. Thanks Tauno!

## Bug fixes

- Corrected a few errors in the catalog translation routines. Jan Nielsen.

**1.116 Version 3.2 : 29.10.1996 : 182880 bytes**

## Changes

- Changed a few things in the System Information window. Things which appear abnormal are now shown in white.
- New version of filevirus.library included.

## Bug fixes

- Listing of known file vira caused enforcer hits. Jan Andersen.
-