Xtruder

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COLLABORATORS

	TITLE : Xtruder		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Xtruder

1.1 Xtruder guide documentation

```
                                    Xtruder

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             Version 2.1 - Release date 12.11.1995
```
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anything else that comes with the original distribution. The terms
'program' and 'Xtruder' below, refer to this product. The licensee is
addressed as 'you'.

1.4 Installation

Notes concerning installation

If you want to manually install the libraries you should copy them to
your 'LIBS:' assign and the Bootblock.brainfile to your 'L:' assign.

1.5   Installation

```
Installation

  Click on the installer icon to start the installation of the libraries
  and the Bootblock.brainfile.
```

1.6   Introduction to Xtruder

```
 What is Xtruder

  Xtruder is a virus killer with a bunch 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.

  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 is amazing.

 System requirements

  - Any Amiga with Kickstart 2.04 or higher.
  - Workbench 2.1 for locale support.

 PGP

  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)

mQCNAjAWEggAAAEEAMBONVPwDx1sHsnh5Cg8lR7duuVh4I0uT3q/aI1EpqBEUsSp
WGDx0h1JBKWrqBVKR1mT7Wtrm5x4rImTurKsjXtK4hCJHhJXPFj0bxjNiGijDVfq
eEt6Pj2n7sghc/bSMH71sUx8FZEa2//hAAPIL9a5+2CxrFT/OaKcaztHngaFAAUR
tClNYXJ0aW4gV3VsZmZlbGQgPHd1bGZmZWxkQGRhdGFzaG9wcGVyLmRrPg==
=0dHU
-----END PGP PUBLIC KEY BLOCK-----
```

1.7   Features in Xtruder

```
Features

  - Locale support (WB 2.1 or higher).
  - Supports many 3.x features (New look menus, hires lace pointer, etc.).
  - Public screen.
  - Font and screen mode sensitive GUI.
  - Is a commodity.
  - Generate a report and check for differences later on.
  - Virus Info Base support.
  - Advanced history options.
  - Checks LhA as well as LZX archives for vira.
  - ARexx interface.
  - Highly configurable.
```

1.8   Getting updates of Xtruder

```
Getting updates

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

   - Insomnia:

     Node #1 +45 98380575 24H 28k8  2:238/127.0@FidoNet
                                    39:140/136.0@AmigaNet
     Node #2 +45 96869090 24H ISDN 2:238/1006.0@FidoNet
                                    39:140/137.0@AmigaNet

     Magic filename: XTRUDER

   - Perto's Asshole

     Node #1 +45 86720273 24H HST/33k6/V32b/V34/V.FC
     Node #2 +45 86720274 24H ZyXEL 19k2 FAX (soon 28k8)
     Node #3 +45 86293910 24H 1k2/2k4/14k4/V32bis
     Node #4 +45 87370010 24H 64k0 ISDN-2   2kb
     Node #5 +45 87370010 24H 64k0 ISDN-2   2kb
     Node #6 +45 87370013 24H 64k0 ISDN-2  16kb
     Node #7 +45 87370013 24H 64k0 ISDN-2  16kb

   - FlashBack:

     Node #1 +45 43624162 24H 28k8

   - Aminet in the 'util/virus' directory.

 Xtruder will only be released archived with LhA!
```

1.9   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 preferences
                  window and press help. The online help will appear,
  provided it has been installed correctly of course, with the GUI
  preferences 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 preferences.

 Listviews

  All listview gadgets (those with a scroller on their right side :) can
  be controlled with the up and down cursor keys. Pressing 'shift' along
  with of one these keys will make it scroll 2 instead of 1. Pressing 'alt'
  moves to either the top or the bottom.

 Checking

  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: 3 Extracted: 2
  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.
  Crunched   – How many files were crunched.
  Decrunched – How many of the crunched files were successfully
                decrunched.
  Archived   – How many archives were encountered.
  Extracted   – How many of the archives were extracted.
  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 data files (ASCII, IFF, etc.).

1.10 The menus

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1.11 Project menu

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1.12 Check menu

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1.14 Bootblock menu

The Bootblock Menu

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1.15 List menu

The List Menu

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1.16 Miscellaneous menu

The Miscellaneous Menu

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1.17 Preferencees menu

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History...

ARexx...

Save...

Save as...

1.18 ARexx menu

The ARexx Menu

Execute script...

1.19 Project menu/Hide

Hide

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

1.20 Project menu/About

 About

 Miscellaneous information on Xtruder.

1.21 Project menu/Quit

 Quit

 Quit Xtruder.

1.22 Check prespecified

Check prespecified

 Checks the prespecified entries. See
              Prespecified...

1.23 Check specified

 Check specified

 Select the files and directories you want to check and away you go :)

1.24 Check bootblock

 Check bootblock

 Check the bootblock of a DOS disk.

1.25   Check vectors

Check vectors

  This is kind of hard to explain to the average user so if you do not
  understand a thing, do not worry :)

  Some vira patches functions in libraries. This could f.x. 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 h*ll is
  vectors you might curse. Well, vectors are e.g. the offset of a function
  in a library. F.x. the offset for Write() in the dos.library is -48.

1.26   Files menu/Unpack to unpack path...

                    Unpack to unpack path

  A filerequester appears where you select the files you want to unpack.
  It may be archives or executables. The selected files are then decrunched
  or extracted to the
                    unpack path
                    .

1.27   Files menu/Unpack to...

                    Unpack to

  If you want to extract or decrunch files to another directory than the
  unpack path then select this. See
                    Unpack to unpack path...
                    for
  more information.

1.28   Bootblock menu/Install..

Install bootblock

  Install a bootblock to a disk in DF0: - DF3:. Choose the drive where the
  disk to install is and then the bootblock.

1.29   Bootblock menu/Save as binary...

Save bootblock as binary

  Save the bootblock of the disk in DF0: - DF3: or a DMS archive as binary
  for later use. Primary use is to backup important bootblocks from
  trackloading games and demos.

1.30 List menu/Known bootblock vira...

```
Known bootblock vira
```

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

1.31 List menu/Known file and link vira...

```
Known file and link vira
```

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

1.32 List menu/Known decrunchers...

```
Known decrunchers
```

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

1.33 List menu/Known file types...

```
Known file types
```

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

1.34 List menu/Known patches...

```
Known patches
```

  Will show the patches which are known to the used version of the
  xtruder.library.

  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 +200k archive if it is only for a new
  library.

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

1.35   List menu/Libraries...

```
List of libraries
```

Show a list of libraries in memory.

1.36   List menu/Devices...

```
List of devices
```

Show a list of devices in memory.

1.37   List menu/Resources...

```
List of resources
```

Show a list of resources in memory.

1.38   List menu/Ports...

```
List of ports
```

Show a list of public ports created.

1.39   List menu/Semaphores...

```
List of semaphores
```

Show a list of public semaphores created.

1.40   List menu/Tasks...

```
List of tasks
```

Show a list of tasks.

1.41   Miscellaneous menu/History/Flush...

```
Flush history
```

Clears history.

1.42   Miscellaneous menu/History/Show...

Show history

  Show history in a resizable window.

1.43   Miscellaneous menu/History/Save...

Save history

  Save history to a file.

1.44   Miscellaneous menu/Report/Generate...

Generate report

  Do you know SnapShot? Well, this feature is somewhat similar to the
  main function of SnapShot. It can report if there have been changes in
  files.

  In the generate report window you may select the following which will
  be stored in the report file:

   File size
   Protection bits
   Date
   Comment
   CRC

  I recommend that you at least select File size, Date and CRC for the
  safest and best reporting. Then press okay. A file requester appears
  where you have to select the files which characteristics should be
  stored for the later check. Many viruses f.x. mess with the commands in
  the 'C:' assign so you could select that directory. Confirm the
  selection of the files you wish to report. Then select where the report
  information should be stored. I recommend you create a report directory
  where Xtruder lies and keep the reports there.

1.45   Miscellaneous menu/Report/Check...

                Check report

  Used to check a report generated by
                Generate report
                 .
  You will be informed about mismatches in the checked files and if so
  you have the choice to either copy, delete or skip the file.

1.46   Miscellaneous menu/Time check/Initialize...

Initialize a time check request

  Start a time check request that when finished will check prespecified
  entries.

1.47   Miscellaneous menu/Time check/Remove...

Remove a time check request

  Remove a time request.

1.48   Miscellaneous menu/Virus info...

                    Virus info

  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 :-)

  There is nothing difficult or tricky with this feature. It is simply a
  virus-encyclopaedia more or less. I suggest you get the VIB package
  before continueing. It contains all the virus descriptions and demos
  which are required before you can make any use of this function.

  Note that Xtruder does not rely on the VIRUS: assign. You have to specify
  in
              paths preferences
               where the descriptions lie.

  There is a search menu for the 'Select area' and descriptions window 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
  in one of the string gadgets and press Okay. It then searches for that
  string in the descriptions. That may take some time. If it finds any it
  will open a new descriptions window with those descriptions that matched
  what you searched for.

  The search strings will be saved along with preferences.

1.49   Preferences menu/GUI...

GUI preferences

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

Screen mode

  Set the screen mode along with width, height 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' since a proportional font would interfere with the
  visual representation.

Requester font

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

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 :)

Control window minimized

  Tick this if you want the control window to be minimized every time
  it is opened.

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?

Scroll mode

  If set the text in the action box will scroll upwards. If not the
  action box will be cleared when the cursor reaches the bottom.

1.50 Preferences menu/Startup...

                    Startup preferences

 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.

 Report file

  See
              Generate report
               for more information.

  Select the report file you have created with
               Generate report
               and
  every time you start Xtruder it will check that report automatically.

 Prespecified

  Check
              prespecified
              at startup.

 Vectors

  Check vectors at startup.

1.51 Preferences menu/General...

               General preferences

 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.

 Commodity priority

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

 Popup on start

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

 Path indention

When a path is encountered, either in a check or whatever else the
action is, it indents the files a number of positions. This number
can range from 1 to 10. (10 is insane :)

Time check

  The number of minutes between each time check.

Program priority

  The priority of Xtruder.

Prespecified priority

  The priority of Xtruder when checking
            prespecified
            .

Specified priority

  The priority of Xtruder when checking specified files.

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.

1.52   Preferences menu/Paths...

 Paths preferences

 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 can check files.

  Object decrunch path

   The path where crunched executables (programs :) are decrunched.

   This path MUST be present before you may check files.

  Virus path

   The path where virus is (optionally) copied to.

   This path MUST be present before you may check files.

  Corrupt path

  Intentionally the path where corrupt files/archives should be copied
  to. But currently only encrypted files are copied there if you have
  not ticked 'Decrunch encrypted files'.

  This path MUST be present before you may check files.

  Auto create above paths

  Instead of tedious requesters at startup and messing around with
  startup-sequence tick this and the above paths will be created
  automatically if they do not exist at startup or when you press okay in
  this window.

  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
      .
      .

1.53 Preferences menu/Prespecified...

 Prespecified preferences

 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.

1.54   Preferences menu/Check I...

                  Check I preferences

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

 PBC bits

  PBC is an abbrevation for 'Protection Bits for Checked files'. I think
  it is pretty obvious what it is for. F.x. 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 BUT the
  archives which HAVE been checked before are simply 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.

 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. (Again to
  avoid confusion files are decrunched to
                object decrunch path
                    .

Decrunch encrypted files

  Crunched files are rarely encrypted but if they are a requester will
  pop up and ask for the password. This is not good if you use Xtruder
  for checking uploaded files because it would "hang" and wait for you
  to enter the password. Therefore you can tick this and possible
  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.

1.55 Preferences menu/Check II...

                Check II preferences

 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 aboce 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 refering 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 – Well, does not disable it as you might think but if the
             virus is an executable it will remove the executable bit
             from the protection preventing it from being executed.

   Delete – Deletes the file.

   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 type
             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 write a comment.

   Copy   – Copy the file to the
              virus path
             .

   Request – Request an action.

   Nothing – Do nothing.

Do with virus copied

 If you copy or more a file there is also a couple of actions Xtruder
 can perform on it.

Comment for virus

 The comment used for a virus infected file or archive.

Rename extension

 The rename extension for a virus infected file archive.

Safe memory limit

 --- NOT IMPLEMENTED YET --- :^)

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.

Size

Size information will be written. Please note that the information you
want to see the slower the scanning will be.

File type

The file type will be written.

Protection bits

The protection bits will be written.

Date

The date will be written.

1.56   Preferences menu/Archives...

Archives preferences

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

Extract routine

Can be either 'Internal' or 'Unpack library'.

'Internal' first makes a list of the files in the archive matching

archive filter
, then extracts each file after eachother AS UNCRUNCHED,
checks it, checks it if crunched and if so decrunches it and checks the
decrunched file and last deletes it to free up memory.

'Unpack library' however, extracts all files matching
archive filter
and all crunched files in the archive is decrunched as well. ←
This means
that some vira linked to a crunched program woould not be found!!

'Internal' is the slowest routine but by far the one which catches most
vira.

Extract LhA

Tick if LhA archives should be extracted and checked.

Max size

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

Extract routine

Can be either 'Internal' or 'Unpack library'.

'Internal' first makes a list of the files in the archive matching

                archive filter
              , then extracts each file after eachother AS UNCRUNCHED,
checks it, checks it if crunched and if so decrunches it and checks the
decrunched file and last deletes it to free up memory.

'Unpack library' however, extracts all files matching
              archive filter
                 and all crunched files in the archive is decrunched as well. ↩
                   This means
that some vira linked to a crunched program would not be found!!

'Internal' is the slowest routine but by far the one which catches most
vira.

Extract LZX

Tick if LZX archives should be extracted and checked.

Max size

This specifies the maximum size an extracted file from a LZX archive
may have. If f.x. 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.

1.57 Preferences menu/Bootblock...

Bootblock preferences

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 vira.

Show bootblock

  Tick if you want to see the checked/installed bootblock.

1.58   Preferences menu/History...

 History preferences

 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.

  Request filename

   When the 'Save method' (described below) has been set to save history
   Xtruder will first create the filename according to the preferences
   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 the memory is the
   limit.

  Save method

   One of the following:

     Don't save   - Do not save after an action.

     After action   - Save history after each of the ticked
                             actions.

     After action then flush - Save history after each of the ticked
                             actions and then flush the lines.

    NOTE: For the moment Xtruder only saves history for the 'Path and file
          check' action.

   Path and file check

Tick if path and file checks should be recorded.

Bootblock actions

Tick if bootblock actions should be recorded.

Report checking

Tick if report checking should be recorded.

1.59 Preferences menu/ARexx...

ARexx preferences

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.

1.60 Preferences menu/Save...

```
Save preferences
```

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

1.61   Preferences menu/Save as...

```
Save preferences as
```

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

1.62   ARexx menu/Execute script...

```
                 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 can be saved. See
                 Save preferences
                .
```

1.63   The CLI interface

```
The CLI interface
```

```
 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.

1.64 Environment variables

Special paths

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

For the preferences file the name is 'PREFSLOCATION' and for the keyfile
it is 'KEYFILELOCATION'.

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

1.65 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:

 GetFile TITLE/K,PATH/K,FILE/K'

   Get a file from the user. TITLE is the title of the requester. You
   can have an initial path and/or file in the requester if you use
   PATH and/or FILE.

   The file including leading path will be returned in Result unless
   the file requester was canceled in which case RC will be non-zero.

 GetPath TITLE/K,PATH/K

   Get a path from the user. TITLE is the title of the requester. You
   can have an initial path in the requester if you use PATH.

   The path will be returned in Result unless the path requester was
   canceled in which case RC will be non-zero.

 CheckPrespecified

   Check prespecified entries.

   RC holds the number of vira found. If RC is negative an error
   occured 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.

CheckSpecified

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

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

  Look above for an explanation of the possible error codes.

CheckFiles FILE/M/A

  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 a directory.

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

  Possible error codes:

   -1 : One of the files/directories were not found. Check was
          therefore interrupted.
   -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.

CheckBootblock UNIT/N,DMSFILE/K

  Check the bootblock of a disk in df0: - df3:. If you know the unit of
  the drive you want to check (0 for df0:, 2 for df2: etc.) you can
  specify it with the UNIT keyword. A DMS archive's bootblock can
  also be checked with the use of the DMSFILE keyword.

CheckVectors

  Show the vector check window.

InstallBootblock UNIT/N,TYPE/N

  Install a bootblock to df0: - df3:. If you know the unit of the drive
  you want to install (0 for df0:, 2 for df2: etc.) you can specify it
  with the UNIT keyword. The TYPE can also be omitted but may be
  one of the following:

```
       1 - 1.x OFS
       2 - 1.3 FFS
       3 - 2.0 OFS
       4 - 2.0 FFS
       5 - 2.0 OFS International
       6 - 2.0 FFS International
       7 - 3.0 OFS DirCache
       8 - 3.0 FFS DirCache
      20 - Custom bootblock
      21 - Select custom bootblock
```

SaveBBAsBinary UNIT/N,DMSFILE/K,BINFILE/K/A

   Save bootblock as binary.

   For UNIT and DMSFILE see above. BINFILE is required and must be
   the full name of the file where the bootblock should be saved to.

Show

   Show the interface.

Hide

   Hide the interface.

RequestUser TITLE/K,PROMPT/K/A,RESPONSE/K

   Request a response from the user.

   Use the TITLE keyword if you would like a different title. Default
   is 'Xtruder Information'. Use the RESPONSE keyword to alter the
   response choice. The choices must be separated by the '|' character.
   The default response is 'Okay'. The text itself must be specified via
   the PROMPT keyword.

   RequestUser PROMPT '"Is this fun ?"' RESPONSE '"_Sure is|_Nope"'

   Result will hold the response. If RESPONSE was passed with
   'Yes|Maybe|No' Result would contain 1 if user selected 'Yes' 2 if
   'Maybe' was selected and 0 for 'No'.

RequestString TITLE/K,PROMPT/K,STRING/K,MAXBUFLEN/N,ALLOWEMPTY/S,
                  RESPONSE/K

   Request a string from the user.

   Use the TITLE keyword if you would like a different title. Default
   is 'Xtruder Information'. Use the RESPONSE keyword to alter the
   response choice. The choices must be separated by the '|' character.
   The default response is 'Okay|Cancel'. Use PROMPT if you want text
   above the string gadget. If you want an initial string use the
   STRING keyword. If the MAXBUFLEN is specified the length of the
   returned string will not exceed this value. The default for
   MAXBUFLEN is 256. If an empty string may be returned specify
   ALLOWEMPTY.

```
RequestUser PROMPT '"Is this fun ?"' RESPONSE '"_Sure is|_Nope"'
```

If requester was canceled RC will be non-zero. If not Result will
hold the string.

```
RequestNumber TITLE/K,PROMPT/K,MIN/N,MAX/N,NUMBER/N,SHOWDEFAULT/S,
                      RESPONSE/K
```

Request a number from the user.

Look above for an explanation of the TITLE, PROMPT and RESPONSE
keywords. If you want limit(s) for the number use MIN and MAX. An
initial number may be passed with the use of the NUMBER keyword. The
number should be visible at first use the SHOWDEFAULT keyword.

ListKnownBBVira

    See

                Known bootblock vira...
                  ListKnownFileVira

    See

                Known file and link vira...
                  ListKnownCrunchers

    See

                Known decrunchers...
                  ListKnownPatches

    See

                Known patches...
                  ListKnownFileTypes

    See

                Known file types...
                  ListLibraries

    See

                Libraries...
                  ListDevices

    See

                Devices...
                  ListResources

    See

                Resources...
                  ListPorts

    See

                Ports...
                  ListSemaphores

    See

                Semaphores...
                  ListTasks
```

    See
                    Tasks...


## 1.66  HowToRegister

 How to register Xtruder

 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 2 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)
     200,- SKR (Swedish kroners)
     200,- NKR (Norwegian kroners)
      40,- DEM (German D-mark)
      15,- GBP (British pound sterling)
      25,- USD (US-Dollars)
     150,- FFR (French francs)

    No coins (except Danish) accepted!!

 2. Or 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. But things take time so please allow up to 8 weeks for delivery,
 thanks = absolute, extremely worst case.

 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@datashopper.dk

- FidoNet:    2:236/25.4

- AmigaNet:   39:141/132.4

- Phone:      +45 (55) 77 01 37


## 1.67   Registered users of Xtruder

Registered users

In alphabetical order:

- Alex Holst
- Bjørn Moritz
- Flemming Slabiak
- Jan Andersen
- Jen Allen
- Kenneth Perto
- Tauno Pinni


## 1.68   Acknowledgements

Acknowledgements

- Alex Holst for great support/beta testing as ever.
- Anders Wegge Jakobsen for ARexx script to DLG Pro BBS system.
- ARexx by William S. Hawes, Wishful Thinking Development Corp.
- Bjørn Reese for creating the filevirus.library.
- Carlsberg & Coca Cola for liquid support.
- Erik Løvendahl Sørensen for SHI.
- Johan Eliasson for Bootblock.library.
- Kasper B. Graversen for beta testing/suggestions.
- Kim Borbjerggaard for great, great beta testing. Keep those bug
  reports coming :)
- Kenneth Perto for beta testing and ARexx script to Zeus BBS system.
- LhA is copyright © 1991,92 Stefan Boberg.
- LZX is copyright © 1995 Data Compression Technologies.
- Olaf 'Olsen' Barthel for his terminal program 'term' and releasing

```
   the source to it!
 - Oliver Lange for the great FileID.library.
 - R.E.M.
 - Thomas Neumann for the best unpack library there is. Looking forward
   to the next APlayer with peakmeters :-)

 There are at time of writing noone I do not wish to thank!
```

1.69 History

```
                 History of Xtruder

 Abbreviations:

  SUG  = Suggestion by
  BUG  = Bug reported by
  OFRU = Only For Registered Users

 Version:


                 1.0

                 1.1

                 1.2

                 1.3

                 2.0

                 2.1
```

1.70   Version 1.0 : 18.10.1994

```
 First release.
```

1.71   Version 1.1 : 14.11.1994

```
 Bug fixes

  - If a file's name was '*' Xtruder would hang. Now it simply skips it!
  - Would not delete files in the unpack path after extracting an LhA
    archive.
  - Showing bootblock could cause a crash on 68000 machines.
```

1.72   Version 1.2 : 5.12.1994

```
Changes
```

  – When commenting a file the file's original comment will be placed in
    the string gadget.
  – Swedish catalog by Tauno Pinni included.

```
Bug fixes
```

  – 'Miscellaneous/Check file' did not write anything if a data file
     were not infected.

1.73   Version 1.3 : 6.1.1995 : 64164 bytes

```
Changes
```

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

1.74   Version 2.0 : 22.10.1995 : 155276 bytes

```
Changes
```

  – Now screen mode- and fontsensitive. 3 fonts for 3 different things :)
  – Generate & Check report feature.
  – Many sizable windows instead of hardcoded coordinates and sizes.
  – Can open on public screens.
  – Vector check.
  – Patch recognition.
  – ARexx interface completely rewritten.
  – AppIcon (drop icons onto it and they will be checked).
  – Asynchronous online help.
  – DMS bootblock check.
  – 'Ports' and 'Semaphores' listings.
  – Virus Info Base implementation.
  – Own LhA/LZX extract routine.
  – LZX support both internal and via unpack.library.
  – Much more control of history (previously called 'Log')
  – Hundreds of other things...

1.75   Version 2.1 : 12.11.1995 : 155004 bytes

```
Changes
```

  – Now checks sizable window's width and height to see if it will fit on
    the screen and if not adjust them to the screen. NAG Alex Holst :)
  – The search strings for the Virus Info Base will be saved along with
    preferences.

```
  - Xtruder.library optimizations in both speed and size of library.
  - Added patch recognition for CEDPatch, AutoCentre and MagicMenu.

Bug fixes

  - Would not open screen on certain graphic cards (e.g. CyberVision). BUG
    Jens Heller Sørensen.
  - 'ListKnownFileTypes' ARexx argument did not work.
  - If an archive was infected with f.x. two vira it would act upon the
    archive two times. E.g. add a rename extension twice which would fail
    the second time. Now infected files are only acted upon once. BUG
    Kenneth Perto.
  - Forgot to store the name of a renamed archive so it could be checked
    for more vira.
  - Now moves the public screen Xtruder uses to front when activated with
    e.g. the popkey.
  - The 'Unpack library' extract mode would hang Xtruder with certain
    filenames. BUG Jens Heller Sørensen.
```

1.76 The future of Xtruder

```
Future of Xtruder

 Ideas:

  - Be able to repair infected files.
  - Custom bootblock brainfile.
  - Improve the vector check a lot.
  - Load preferences.
  - Rigid Disk Block backup/restore.
  - Lots of other cool features... :)
```