

Virus_CheckerII

Alex van Niel

COLLABORATORS

	<i>TITLE :</i> Virus_CheckerII		
<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

Virus_CheckerII

1.1 Virus_Checker II Help

Virus_Checker v7-v8.4, Copyright © 1990-1995 by John Veldthuis
 Virus_Checker II, Copyright © 1997/1998 by Alex van Niel

Version of this release is 1.5

~Presentation~~~~~ ~~	What is Virus_Checker II
~Important~notes~~~~~	Please Read this
~Shareware~Notice~~~~~	Virus_Checker II is not free
~Registration~~~~~	Fill me out and mail me
~Danish Registration~~	Fill me out and mail me
UK Registration	How to register easy when you live in the ←
UK	
~Security/PGP~~~~~	How do I know this is not a virus
PGP Key Servers	How to get my public PGP key
~Main~Window~~~~~	Main Virus_Checker II window
~Command~Line~Options~	Start Virus_Checker II from SHELL
~Icon~ToolTypes~~~~~	ToolTypes Virus_Checker II uses
~Workbench~AppIcon~~~~	Drag and Drop checks
~Files~Needed~~~~~	Files required by Virus_Checker II
~Localization~~~~~	Yep Virus_Checker is locale aware
~Installing~~~~~	How to install Virus_Checker II
~\$4eb9~Link~Virus~~~~~	SPECIAL NOTE ON THIS VIRUS
~Archives ~~~~~	Checking into Archives
~Arexx~Port~~~~~	Arexx commands
VC II Related	Virus_Checker II Related Addresses, where and how to get it
Frequently Asked Questions	Questions people asked me the most
~Disclaimer~~~~~	And now for something completely different
~Author~Info~~~~~	About the Author
~Credits~~~~~	Thanks Guys
~History~~~~~ ~~~	How things got to here
History of Brainfile	History of the Virus_Checker brainfile

To Do/Future

What will come and what great plans I have

1.2 Presentation

This piece of software is Shareware !

Virus_Checker II

Virus_Checker, Copyright (c) 1990-1995 by John~Veldthuis
Virus_Checker II, Copyright (c) 1997/1998 by Alex van Niel

=====
(pinkie@dds.nl)

Virus_Checker II is a program that can be used on any Amiga that is running Workbench 2.04 or better. Versions BEFORE 7.0 will run on any Amiga regardless of the Workbench. Yep it should even work on 1.1

Virus_Checker II is designed to hunt out Amiga viruses and kill them dead. It also scans memory on startup and checks all suspect vectors. It also checks certain memory locations every 2 seconds for infection. It is also possible to use VirusChecker online with a BBS to check incoming archives IMMEDIATELY. This can be done by using the Rexx port of Virus_Checker II in combination with the extraction tool (DVCPlugin) which in combination with the Archive Options feature can handle ANY archiver you desire.

You will be able to use the program without reading this file but for best advantage you should read it all. This might prevent certain problems from occurring or might help you solve certain problems.

Any comments or problems with any of the documentation or the program itself are welcome; if you can't get electronic mail to me, please feel free to drop me a note via the overland mail~address given below instead.

Virus_Checker II is written in 100% Assembly code using Cygnus Ed, Macro68, and Debugged using Enforcer, Segtracker, Mungwall, Sushi, TNT and Amiga_E.

1.3 important

Some important notes for Virus_Checker

=====
The old keyfile that was valid for versions 1.0 of Virus_CheckerII and 8.4 and down of Virus_Checker is NO LONGER VALID!

Some registered users have already received a new keyfile which unlocks the special features. They don't need to contact me.

The old keyfile is now considered a cracked/bad keyfile and is treated as such. You will be able to access the Archive Options, but you won't be able to check into archives, so it won't do anything. If you are a registered user and don't have the new keyfile, please feel free to contact me. Already registered users can get a free update (excl. possible postage and package if not sent through e-mail) from me personally. To do this, fill out the reg. form again with the data you send to John and if it has changed since then, also add the current valid data (in case you moved for instance).

If you would like to receive your keyfile through e-mail, then please also add your pgp public key, so I can encode it and send it to you as soon as possible.

Virus_Checker II will pick up all the files that it requires from at least 2 places. It will first try PROGDIR: then the alternative place. Virus_Checker will save any of the files it needs to back from where it read it from.

See Virus_Checker Files for details

Please send bug reports/suggestions/ideas/whatevers to pinkie@dds.nl

1.4 Shareware Notice

This program is SHAREWARE.

Virus_Checker II for me is mainly a hobby but it does cost quite a bit. Therefore I took the decision to make Virus_Checker II SHAREWARE.

The cost is a very small US\$20 or NFL 40. For this you get some key details that will unlock a few features in Virus_Checker II. The future key is only valid from VirusChecker II version 2.0 and up. If for some reason, hackers are able and willing to crack the key however, already registered users will have to get a new keyfile. This 'update' will be completely free (except for possible postage and package).

The best way to send this to me is in cash. I prefer NFL (dutch money) because I don't have to change that at the bank. EuroCheques are the only cheques I can accept since the bank here charges really much for foreign cheques (not euro). If you send a cheque, please put dutch guilders (NFL) on it and not dollars, this will save me the currency change costs.

If you cannot send cash or eurocheques then please send a bank draft drawn on a major bank. I cannot accept postal money orders. Our banks will just not accept them.

For my e-mail/postal address refer to the Author~Info.
And please, include YOUR e-mail address if you send me letters.

If you are in a hurry to get your keyfile and have an internet e-mail address and have a PGP public key then e-mail me your public key and I can send the keyfile afap (as fast as possible :)) over the internet.

Please fill out the Registration form and mail it to me with payment Please make sure that name and address is clear as it takes ages sometimes to decypher some peoples scrawls.

1.5 Registration

```
*****
**      Virus_Checker II Registration Form      **
*****
```

Send this form to:

Alex van Niel
B. Holiday str. 116
2551 WK Den Haag
Netherlands

e@mail:
pinkie@dds.nl

First Name: _____ Last Name: _____

Street: _____

City: _____

County: _____ Post Code: _____

Country: _____

Email: _____@_____

New Registration: No/Yes

Viruschecker I Registration: No/Yes

```
*****
```

If you were a Virus checker I registered user and had registered,
could you tick above to show this?

Registration of Virus_Checker II will unlock a few features that are
present in Virus_Checker II that will not work unless you have a key.
At present this is the ability to check files inside LHA/LZH files. But

will be expanded, viruschecker is supposed to become a full online BBS virus checking tool and those features will be unlocked by a keyfile.

You will receive in the mail (or email if you have a PGP public key) a keyfile which will now be valid for most of the VirusChecker versions.

The cost of the Shareware fee is \$20 or NL40,-. If you require the keyfile via snail mail there will be a \$1.50 or NL 3,- P+P charge, this also applies to re-registration. Please add this P+P charge to the fee when you send it to me, so I do not need to ask you for it afterwards.

Signature

Date

1.6 Danish Registration

Virus Checker Registreringsformular

Ja, send mig straks mine personlige koder, saa jeg kan bruge Virus CheckerII fuldt ud.

Personlige data (disse data vil blive opbevaret paa elektronisk form af Virus Help Team Denmark, og Alex van Niel. De videregives IKKE).

FORNAVN : _____

EFTERNAVN : _____

GADE : _____

POSTNUMMER : _____

BY : _____

EMAIL (evt.) : _____

TLF. (evt.) : _____

Prisen er dkr. 140,-, som jeg vedlaegger paa check, eller i kontanter (BEMAERK: Virus Help Team Denmark paatager sig intet ansvar for kontanter der ikke er sendt anbefalet).

Leveringsform, afkryds venligst:

- ☐ Send mig koderne i et almindeligt brev.
- ☐ Send mig koderne til min Internetadresse (PGP kodet)
- ☐ Send mig koderne crash til min fidonetadresse (PGP kodet).

Koderne vil blive leveret saa hurtigt som muligt, men det kan tage op til 4 uger at behandle registreringen.

OBS!! Hvis koderne skal sendes via email vil brevet blive kodet med PGP, saa send et netmail med din publickey (til enten hlau@scientist.com eller 2:237/30.2).

Jeg er inforstaaet med ovenstaaende samt at de tilsendte koder KUN er til personligt brug.

Formularen sendes til:

Henrik Lauridsen
Baunebakkevej 4 1 th
2650 Hvidovre

1.7 UK Registration

UK Registration =====

Don't you just hate going to the bank, changing your UK pounds to foreign currency paying more then the actual registration fee? I myself like to avoid going to the bank when it is not extremely necessary since client friendliness is something they have not written in their dictionaries. So why bother? Thanks to Paul Compton you can register VirusCheckerII the easy way, just contact him, he will contact me and after paying him in UK pounds, you will be a fully registered VirusCheckerII user within days.

But how does it all start? Well, there are two possibilities:

1) you are an already registered user of VirusChecker

or

2) you want to become a registered user of VirusCheckerII

In the first case, you probably have registered yourself with John Veldthuis and are now wondering if you are beeing supported by me. Well, as I mentioned in the ShareWare section, every user that has registered him or herself with John, can get his/her new keyfile for free. You then only have to fill out the request form below, contact Paul, tell him that you are a already registered user and send the form either printed or digitally to Paul Compton. He will then send it to me, I will check the data you filled in.

In the second case, you will have to contact Paul Compton and agree upon a way

of payment. Then you will have to send the completely filled out request form that you can find below to Paul. After I have received your request form and heard from Paul that you have payed your fee, you will receive the keyfile. This will be done either through e-mail, Paul's BBS or by snail-mail (You will have to pay for the Postage and Package however).

In short:

I suggest you fill out the registration request form you find below, contact Paul Compton and print the request form below out, or send it digitally to him. Here is how you can reach him:

You can call his Bulletin Board System (BBS):

Elevate BBS +44 (0) 1329319028

Write a netmail to the following address:

2:251/18.0@Fidonet

Write an e-mail to the following address:

pwcomp@elevate.demon.co.uk

Or write to his snail mail address at:

Paul Compton
36 Priory Road
Fareham
Hants PO15 5HT
UK

Paul also has a website, why don't you take a look at his site?

His URL is:
www.elevate.demon.co.uk

```
*****
**      Virus_Checker II Registration Form      **
*****
```

UK Registration:- Paul Compton
 36 Priory Road,
 Fareham.
 Hants. PO15 5HT

 pwcomp@elevate.demon.co.uk

 BBS Tel.No. 44 (0) 1329319028

First Name: _____ Last Name: _____

Street: _____

City: _____

County: _____ Post Code: _____

Country: _____

Email: _____@_____

New Registration: No/Yes

Viruschecker I Registration: No/Yes

If you were a Virus checker I registered user and had registered,
could you tick above to show this?

Registration of Virus_Checker II will unlock a few features that are
present in Virus_Checker II that will not work unless you have a key.
At present this is the ability to check files inside LHA/LZH files. But
will be expanded, viruschecker is supposed to become a full online BBS
virus checking tool and those features will be unlocked by a keyfile.

You will receive in the mail (or email if you have a PGP public key) a
keyfile which will now be valid for most of the VirusChecker versions.

The cost of the Shareware fee is £13:50. If you require the keyfile
via snail mail there will be a £1:00 P+P charge, this also applies to
re-registration.

Signature

Date

1.8 Security

Security/PGP
=====

All versions of Virus_Checker II since 6.44 have PGP sig files in the archive.
This enables pgp to check that the file is in fact the same one I released.

Below you will find my signed public key. Save this to a file and then enter
pgp <filename> to add it to your keyring. Follow the PGP instructions to add
it.

If you do not trust this key (it can be substituted by someone) then get
my current key from one of the pgp key servers
Or from one of the UBS bulletin systems in the Netherlands. You can always get
my pgp from me personally through e-mail.

To check that the signature matches the file simply do
PGP <filename>.sig <filename>
PGP will warn you if the signature does not match the file.

An example of this is a the hoax version of 6.6 which quick formats
drives. If you had done the test above it would have told you it was fake.

Virus_Checker II also has it's own internal checking for changes as well. Again
this is not 100% but guards against the simple changing of version numbers.
It also means it takes a better hacker to change the checksums.

Virus_Checker II will warn you of both checksum errors on itself and on the
file VirusChecker.brain which holds the most recent virus recog and removing
routines.

Public Key details:

Type	Bits/KeyID	Date	User ID
pub	1024/F47EFCF1	1997/12/25	Alex M. H. van Niel <pinkie@dds.nl>

-----BEGIN PGP PUBLIC KEY BLOCK-----

Version: 2.6.3i

Comment: Requires PGP version 2.6 or later.

```
mQCNAzSiq38AAAEAAK6uPZPDGxhgKfZqIbFWstCt5QsSRQGLlF++E/rlAbWWWaip
a8vSfQDcy96+QOcmFMWIKL58YJislwZj06Fenw+8WrDsPcizWsSORX+8h8opjqop
R3oO133uI4EnmczpyjI8GhA75D46fHiI1KyZrarBKfduUXHSP4GFUWH0fvzxAAUR
tCNBbGV4IE0uIEguIHZhbIBOaWVsIDxwaW5raWVAZGRzLm5sPokAlQMFEDSiq4CB
hVFh9H788QEB87AD/0YTqzc7JhUH05Ll5OkHciep8keTg893xe+zAMNhB9ssa9yM
NMXZ+GYQ3mzzZTLCB/9E8E542KVLmZ5Cevdb/nIlKJyR4CUuWjQo7BnUuBnESbLA
vK1M0Bfu3rEkKUY786ZupzBMNEjA2cWYq8szApPDbo9bLw3AtTDKcCPDrQkD
=bxon
```

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

1.9 PGP Key servers

PGP Public Key servers

There are PGP public key servers which allow one to exchange public
keys running through the Internet and UUCP mail systems.

NOTE!

This service is NOT supported in any way whatsoever by the schools or organizations on which these servers run. It is here only to help transfer keys between PGP users. It does NOT attempt to guarantee that a key is a valid key; use the signators on a key for that kind of security. This service can be discontinued at any time without prior notification.

Each keyserver processes requests in the form of mail messages. The commands for the server are entered on the Subject: line.

```
To: pgp-public-keys@pgp.mit.edu
From: johndoe@some.site.edu
Subject: help
```

Sending your key to ONE server is enough. After it processes your key, it will forward your add request to other servers automagically.

For example, to add your key to the keyserver, or to update your key if it is already there, send a message similar to the following to any server:

```
To: pgp-public-keys@pgp.mit.edu
From: johndoe@some.site.edu
Subject: add

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.2i

<blah blah blah>
-----END PGP PUBLIC KEY BLOCK-----
```

COMPROMISED KEYS: Create a Key Revocation Certificate (read the PGP docs on how to do that) and mail your key to the server once again, with the ADD command.

Valid commands are:

Command	Message body contains
ADD	Your PGP public key (key to add is body of msg) (-ka)
INDEX	List all PGP keys the server knows about (-kv)
VERBOSE INDEX	List all PGP keys, verbose format (-kvv)
GET	Get the whole public key ring (-kxa *)
GET <userid>	Get just that one key (-kxa <userid>)
MGET <userid>	Get all keys which match <userid>
LAST <n>	Get all keys uploaded during last <n> days

Examples for the MGET command:

```
MGET michael      Gets all keys which have "michael" in them
MGET iastate      All keys which contain "iastate"
MGET 0AF605A5|683A738B Those two keyids
```

If you wish to get the entire key ring and have access to FTP, it would be a lot more efficient to use FTP rather than e-mail. Using e-mail, the entire key ring can generate a many part message, which you will have to reconstruct into a single file before adding it to

your key ring.

As of 21-Apr-95, these sites are running this system:

pgp-public-keys@pgp.mit.edu
Derek Atkins <warlord@mit.edu>

pgp-public-keys@pgp.iastate.edu
Michael Graff <explorer@iastate.edu>

pgp-public-keys@burn.ucsd.edu
Andy Howard <ahoward@ucsd.edu>

pgp-public-keys@fbihh.informatik.uni-hamburg.de
Vesselin V. Bontchev <bontchev@fbihh.informatik.uni-hamburg.de>

public-key-server@martigny.ai.mit.edu
Brian A. LaMacchia <public-key-server-request@martigny.ai.mit.edu>

pgp-public-keys@pgp.ox.ac.uk
Paul Leyland <pcl@ox.ac.uk>

pgp-public-keys@dsi.unimi.it
David Vincenzetti <vince@dsi.unimi.it>

pgp-public-keys@kub.nl
Teun Nijssen <teun@kub.nl>

pgp-public-keys@ext221.sra.co.jp
Hironobu Suzuki <hironobu@sra.co.jp>

pgp-public-keys@sw.oz.au
Jeremy Fitzhardinge <jeremy@sw.oz.au>

pgp-public-keys@kiae.su
<blaster@rd.relcom.msk.su>

pgp-public-keys@srce.hr
Cedomir Igaly <cigaly@srce.hr>

pgp-public-keys@pgp.pipex.net
Mark Turner <markt@pipex.net>

Sites accessible via WWW:

<http://martigny.ai.mit.edu/~bal/pks-toplev.html>
<http://ibd.ar.com/PublicKeys.html>

Key server keyrings accessible via FTP:

<ftp://pgp.iastate.edu/pub/pgp/public-keys.pgp>
<ftp://pgp.mit.edu/pub/keys/public-keys.pgp>
<ftp://burn.ucsd.edu/Crypto/public-keys.pgp>
<ftp://alex.sp.cs.cmu.edu/links/security/pubring.pgp>
<ftp://ftp.informatik.uni-hamburg.de/pub/virus/misc/pubkring.pgp>

`ftp://ftp.dsi.unimi.it/pub/security/crypt/PGP/public-keys.pgp`

1.10 Main Window

Main Window and short intro
=====

When Virus_Checker II starts up it will do a number of things before you even see anything appear. First thing it does is initialise itself and then checks itself for changes that have been made. It then loads the files it needs and checks them. Next it checks memory for any infection. Next on the list is to see if the user gave it a file to scan. If yes then it scans these file/files. Next it checks the first file in s:startup-sequence for any viruses. This is a common place for infection. Last thing it does is check any floppy disks that may be in the drives.

At this stage the main window will open. It will not open if you told it not to though. The main window can open in 2 states. Full or ICON mode.

At this stage the main window will open. It will not open if you told it not to though. The main window can open in 2 states.

Icon Mode

Full Mode

1.11 Icon

ICON mode

```
| | | | |
|[.]| Virus_Checker II 1.5 by Alex van Niel |[ ]|
| | | | |
-----
```

The ICON state is basically just a TitleBar.

Closebutton

Clicking on the close gadget will make all the open Virus_Checker II windows close. This does not actually stop Virus_Checker II but just makes all the windows close. Virus_Checker II is still on guard.

ToBack

Clicking on the ToBack gadget will send the Virus_Checker II Main window behind all the other open windows.

RMB

There is no Zoom gadget however, clicking on an active Title Bar with RMB activates the Zoom gadget and opens the Title Bar in Full Mode.

1.12 Full

Full Mode

```

-----
|  |  | Virus_Checker II 1.5 by Alex van Niel  |  |  |
|---+-----+-----+-----+-----+-----|
| Show Vectors | File/DIR Watch | Scan Files | v |
|---+-----+-----+-----+-----+-----|
| Options | Format Protection Options| Archive Options |
|---+-----+-----+-----+-----+-----|
| Check Now | Quit |
|---+-----+-----+-----+-----+-----|
| | |
-----

```

Show Vectors

File/Dir Watch

Scan Files

v

Options

Format Protection Options

Archive Options

Check Now

Quit

MENUS

To access Menu, VC II must be in Full Mode.

Project/File Scan

This menu will bring up the Scan Requester so that you can enter a file or directory name to scan for viruses.

Project/Full Memory Check

This menu will cause Virus_Checker II to do another complete memory check. This is the same one that is done at start up.

Project/Vector Show

This menu will cause Virus_Checker II to open a scrollable window with information about the system vectors. See @{"Vector Show Options" link " ← VectorShow" 0} for more information.

Project/Save Config

This menu will cause Virus_Checker II to save it's current configuration to it's configure file.

Project/Stats

This menu just gives you some data on the disks checked, files scanned and viruses found since it was started.

virus VC will not be able to deal with it BUT, if a note is made of the name/s of the infected file/s, the user can then save the files to disk and send them to me and then replace the infected files on the hard drive from your original workbench disks.

LoadWB - assign - conclip - execute - iprefs - list - mount
Startup-Sequence - User-Startup

It is also recommended that a selection of the most used programmes are included in the File/DIR Watch list.

1.15 string

string

This string gadget is used to enter the name of the file or directory to be watched. If you selected a name in the ListView gadget then the name will automatically be put in here as well.

1.16 &

&

This gadget will bring up the ASL File Requester and you can enter a file or directory to watch. Selecting it will automatically enable the string gadget and enter the dir/file name in there. Then simply hit the return key to enter the name.

1.17 Add

Add

Clicking on this gadget will activate the string gadget above it and allow you to enter the name of a file or directory to watch

1.18 Remove

Remove

Clicking on this gadget will delete the name from the list of watched files/directories that is specified in the string gadget above it.

1.19 Option Save

Save Options

This will save all the options to the file PROGDIR:Virus_Checker.config or S:Virus_Checker.config depending on where it was loaded from.

1.20 Option CloseWind

Close Window

Pretty obvious what this one does. Closes the window

1.21 Scan

Scan Files
=====

Clicking on this button will bring up the ASL Requester. You can then select a drive/directory/file to check for viruses.

Clicking on cancel will cause the scan to be aborted.

Click on Okay once you have selected what you want scanned.

1.22 Quit

Quit
=====

Pretty obvious what this button does

1.23 Option XFDMaster

XFDMaster

Turning this Checkbox gadget on will cause Virus_Checker II to use the xfdmaster.library. This library is used to uncrunch files that are packed to save space. A virus could be packed inside one of these files. And if the so called 4eb9-methods are used to link two files together, then the library is used to unlink these files and if the linked files are crunched as well, then these files will also be uncrunched.

1.24 Option UseWindow

Use Window

Setting this option causes Virus_Checker II to open it's main window when it starts up. With it off the window will not open

1.25 Option IgnoreBB

Ignore BB Read Error

By turning this Checkbox gadget on it will tell Virus_Checker II to ignore putting up a requester when it can't read a BootBlock from a disk. This is extremely handy if you use MSDos disks as Virus_Checker II cannot read them normally

1.26 Option Unpack

Unpack & Check into Archives

Turning this Checkbox gadget on/off causes Virus_Checker II to unpack archives which have been specified by using the Archive Options window and automatically check inside for viruses. This option is only active when you are a registered user.

1.27 Option DFxBB

Check DFx Bootblock

Selecting these Checkbox gadgets tells Virus_Checker II to check the bootblock and the first file in the startup-sequence, plus a few other special files for viruses on any disk inserted into a floppy

1.28 Option Scan

Scan Watch Change

Selecting this Checkbox gadget tells Virus_Checker II to automatically scan any file or Directory that is being watched by Virus_Checker II should it change

1.29 Option Capture

Ignore Capture Vectors

Setting this Checkbox gadget tells Virus_Checker II to ignore anything in the capture vectors. These vectors are used to survive reboots so viruses usually go for them.

1.30 Option UseBBLib

Use BootBlock.library

Setting this Checkbox gadget tells Virus_Checker II to use the BootBlock.library when checking Bootblocks for viruses. This library knows about some viruses that Virus_Checker II does not so it is best left on.

1.31 Option DFxFull

Check DFx Full

Selecting these Checkbox gadgets compliments the bootblock checks. If selected and a floppy is put in the drive then Virus_Checker II will automatically start scanning the whole disk for viruses.

1.32 Option

Check Files for BootBlock viruses

Selecting this CheckBok gadget will activate the checking for BootBlock viruses in "normal" files. This has especially been added for Anti-Virus Teams, the regular user does not need to atcivate this since all current known viruses do not save their code to a bootblock structured file.

Virus_CheckerII does not check EVERY file deeply for bootblock viruses. It first tries to identify if it is a bootblock file by testing the first three bytes for the occurance of the string 'DOS'. If present, this file is considered a bootblock, it is checked for BB viruses, if none are found, the file is normally checked for Link and File viruses.

1.33 Option HotKey

Popup HotKey

This is the key combination that is used to POP the Virus_Checker II main window open if it is not open already.

1.34 Option TempDir

Tempory Directory

This string gadget is only of use to registered users. When unpack.library looks into LHA/LZH files it requires a tempory directory to do so. This is that directory.

WARNING: WARNING: WARNING: VirusChecker II deletes anything in this directory when it removes it's files so make sure that nothing of importance is in them. You have been warned.

1.35 Option Save

Save Options

This will save all the options to the file PROGDIR:Virus_Checker.config or S:Virus_Checker.config depending on where it was loaded from.

1.36 Option CloseWind

Close Window

Pretty obvious what this one does. Closes the window

1.37 Option ArexxScan Window

Arexx Scan Window

Setting this button will tell Virus_Checker II to open the Scan display window when scanning files by ARExx. Turning it off will not see the files as they are scanned.

1.38 Option Start Iconified

Start Iconified

Selecting this CheckBox will cause Virus_CheckerII to NOT open it's main window after startup but only a mere titlebar.

1.39 Option AppIcon On

AppIcon On

Turning this gadget on will allow Virus_Checker II to create an AppIcon on your Workbench. Workbench has to be running before Virus_Checker II so that the AppIcon can be made. However if you start Workbench after Virus_Checker II has been started you can get Virus_Checker II to create an AppIcon by turning this option off (if needed) and then back on.

1.40 &

&

This gadget will bring up the ASL File Requester and you can enter a file or directory to watch. Selecting it will automatically enable the string gadget and enter the dir/file name in there. Then simply hit the return key to enter the name.

1.41 string

This string gadget is used to enter the name of the file or directory to be watched. If you selected a name in the ListView gadget then the name will automatically be put in here as well.

1.42 Add

Add

Clicking on this gadget will activate the string gadget above it and allow you to enter the name of a file or directory to watch

1.43 Remove

Remove

Clicking on this gadget will delete the name from the list of watched files/directories that is specified in the string gadget above it.

1.44 CheckNow

Check Files Now

[illegible]

String Gadget

&

Add

Remove

Save Options

Check Now

Close Window

1.45 Check

Check Now

Selecting this gadget will start Virus_Checker II checking all files and directories listed in the Check Files Now Listview gadget.

1.46 VectorShow

Vector Show

=====

This is a new option which will during the developement of VirusChecker II be extended, updated and refined.

This option has been added to the menu as well as to the main window for easy acces. It shows some important vectors and memory addresses that generally are frequently infected by viruses. Showing such an address does NOT mean that this position has been infected. For now just a few vectors are showed indifferent of a possible infection or not. In other words, these vectors are ALWAYS shown by VirusChecker II. This might soon change.

It also enables some advanced users to check these vectors manually so that they can identify possible future virusses/problems etc.

Remember, any serious problem like patching of LoadSeg() or DoIO() and the like are monitored and reported so there is little need to worry when finding different altered vectors.

VectorShow also shows the complete TaskList, the tc_launch, tc_switch and pr_pktwait (if available offcourse) these are the fields that should most of the time be zero. VirusCheckerII will search the memory for known viruses if it detects that these fields aren't zero but won't report it since most of the time changes to these fields are made by normal user programs.

One field that is not shown but IS watched is the \$6c(process). This field is patched by the HANF virus. If this field doesn't point to the address of the process then VirusCheckerII will check the memory for virus but won't notify you of this change since it is likely that normal user programs changes this field.

1.47 Format Protection Options

Format Protection Options

=====

This feature has not been implemented yet but will be added very soon. This button will, in the future, open a options window for this new feature in which it will be possible to specify which device(s) to protect from formatting and probably also which unit and if any boot writes, formatting and RDBs should be protected.

ATTENTION:

You do NOT have to put the strings between two quotes since Virus_CheckerII knows it is dealing with a string and it knows where it ends.

Label

In this string gadget you can enter the label of the archiver entry. To add an archive entry successfully to the list this entry must be set.

Offset

In this integer gadget you can enter the offset of the ID string in the file. LHA for instance has it's ID string at offset 2 and LZX at offset 0.

This gadget defaults to 0 and does not have to be set.

ID String

This string gadget has to be set to create a successful entry.

It holds the ID string used to identify an archive.

LHA for instance has as ID string -lh and LZX has as ID string LZX

Cli Command

This string gadget must definitely be set since it is used to unpack the archive. LHA for instance can be unpacked with the following cli command: LHA x -m -M -q "%s" "%s"

The first %s is the wildcard for the archive which has to be unpacked and the second %s is the destination directory.

Make sure the wildcards are placed between two " else the unpack command might get confused when dealing with path names like: Ram Disk:

Accept

Pressing this gadget will cause the data to be added to the list. If you forgot to set one or more string gadgets, Virus_Checker II will warn you and return you to the window with the data.

Abort

Pressing this gadget will (obviously) stop configuring the archiver and discard all entered data.

Remove

Pressing this gadget will cause a selected entry to be removed from the list.

Save Options

Pressing this gadget causes the list to be saved to disc. BEWARE Do NOT adjust the list (Virus_Checker.Arc) since manual editing may cause Virus_Checker II to crash or something far worst.

Close Window

Pressing this gadget causes the window to close.

When you have added or removed an entry from the list, have not saved the list and cause Virus_Checker II to quit (one way or another), Virus_Checker II will ask if you want to save the list or ignore the changes.

BEWARE!

Although this code has been optimised a lot, it is possible that your machine gets slowed down pretty bad because of this function. This is very likely when you have entered a lot of entries in the list, and/or if you have some kind of debugging and/or snoop task running. If you this is the case, then you can of course turn it off in the options window, or try to remove some of the entries, or quit the debugging/snoop task.

1.49 Auto Repair

Auto Repair

```

| | | | |
| [.] | Virus_Checker II Auto Repair | [ ] | [ ] |
| ---+-----+-----+-----+-----+ |
| [ ] Auto Repair |
| ----- Link Check ----- |
| [ ] Ignore |
| [ ] Delete |
| [ ] Remove Virus |
| ----- File Check ----- |
| [ ] Ignore |
| [ ] Delete |
| ----- |
| [ ] Disable Requesters during File Scan |
| [ ] Disable Requester(s) of Watch Function |
| |
| | Close Window | |
| |
| ----- |
| ----- |

```

This feature is only available to registered users for now. It can be found in the Options Window where this button gives you access to a window with switches concerning the requesters and automatic handling of viruses.

Auto Repair

As said, this button gives you access to a window with various switches.

Auto Repair

This switch enables or disables the automatic handling of viruses.

When enabled, the switches for automatic Link and File check handling will be unghosted. This switch can turn on or can turn off the complete auto handling feature.

When enabled it does not yet mean the automatic handling is active.

The Other switches have to be set for automatic handling to get active.

Link Check

Ignore

When this switch is enabled, all files that are infected with a Link virus (like "Happy New Year 98" and so on) will be ignored.

No repairing of the infected file is done. If a directory is scanned, a scan window has been opened, the file with the type of

infection will be put in this window. No requester will open asking you if you want to ignore, delete or remove the virus.

Delete

The infected file will automatically be deleted and no requester will pop up when you enable this switch.

Remove

When this switch is enabled, the infected file will be cleaned automatically. No requester will pop up.

File Check

Ignore

An file that has been infected with a file virus, will be automatically ignored when this switch is enabled.
No requester will pop up.

Delete

An file that has been infected with a file virus will automatically be deleted when this switch is enabled.
No requester will pop up.

Disable requesters during File Scan

If this switch is enabled, all error requesters that can occur during a filescan will be disabled. If the scan window was not opened, a requester still pops up.

If a scan window was opened, the file on which an error occurred is put in the window and a standard error message is mentioned. If you want to know the exact error message, you should disable this switch.

Disable requester of Watch window

If this switch is enabled, the requester that would normally pop up when a watched file is changed, will now be disabled.

1.50 Command Line Options

Command Line Options

=====

Usage: Virus_Checker II U=UNPACKOFF/S,B=BOOTBLOCKLIB/S,N=NOWINDOW/S,
CBB=CHECKRADBB/S,XFD/S,STDOUT/S,AUTOSCAN/S,CX_POPKEY/K,
A=APPICONNAME/K,QUIT/S,D=DIR/M

Available options: -----

U=UNPACKOFF

This option turns off the unpacking of the archives.
This can be also turned off using the Options Window.

B=BOOTBLOCKLIB

Using this option will tell Virus_Checker II to use BootBlock.library to

check for bootblock viruses. There are many viruses in this library that Virus_Checker II does not know about so it is best to leave this on all the time anyway.

This can also be changed in the Options Window

N=NOWINDOW

This overrides the normal Virus_Checker II options and causes Virus_Checker II to run without opening it's window

This option can be set in the Options Window and saved

CBB=CHECKRADBB

This option makes Virus_Checker II check the RAD: bootblock for any viruses. RAD: is a normal disk and can be infected as well.

XFD

This option turns on XFDMaster.library checking. It handles crunched files as well as linked files.

STDOUT

This option works in tandem with the D=DIR/M keyword. If you give this option then Virus_Checker II will output anything it would normally display through a requester out through the shell it was started from. This includes virus information and error messages.

AUTOSCAN

This option affects what happens when Virus_Checker II gets a message from AmigaDOS that a file or directory has been changed. If this option is given then Virus_Checker II will automatically scan the file/dir before telling you that it changed.

This option can be changed in the Option Window

CX_POPKEY

Using this you can tell Virus_Checker II which key you wish to use to pop up the interface.

A=APPICONNAME

Using this you can tell Virus_Checker II what to use as a name for it's AppIcon

QUIT

This option can be used to make an already running Virus_Checker II quit

DIR

If you supply a directory or file using this option then Virus_Checker II will start scanning it as soon as it has started up.

1.51 Icon ToolTypes

Workbench ToolTypes =====

Virus_Checker II can also be started from Workbench either through it's icon or in the WBStartup drawer. In this case Virus_Checker II will then get it's commands through icon ToolTypes.

All of the ToolTypes are already in the Virus_Checker II.info file. They have been disabled (except 1) by putting a () around them. To enable a ToolType simply remove the () and save it.

ToolTypes available are

DONOTWAIT

This is a Workbench ToolType and is required to be left enabled so that Workbench does not wait for Virus_Checker II to finish.

UNPACKOFF

This option turns off the unpacking of archives.
This can be also turned off using the Options Window.

BOOTBLOCKLIB

Using this option will tell Virus_Checker II to use BootBlock.library to check for bootblock viruses. There are many viruses in this library that Virus_Checker II does not know about so it is best to leave this on all the time anyway.
This can also be changed in the Options Window

NOWINDOW

This overrides the normal Virus_Checker II options and causes Virus_Checker II to run without opening it's window
This option can be set in the Options Window and saved

XFD

This turns on xfdmaster.library which handles uncrunching packed files and unlinking of linked files

CHECKRADBB

This option makes Virus_Checker II check the RAD: bootblock for any viruses. RAD: is a normal disk and can be infected as well.

AUTOSCAN

This option affects what happens when Virus_Checker II gets a message from AmigaDOS that a file or directory has been changed. If this option is given then Virus_Checker II will automatically scan the file/dir before telling you that it changed.
This option can be changed in the Option Window

CX_POPKEY

Using this you can tell Virus_Checker II which key you wish to use to pop up the interface.

APPICONNAME

Using this you can tell Virus_Checker II what to use as a name for it's AppIcon

QUIT

This tells Virus_Checker II to preform it's checks and quit as soon as it is done instead of hanging around.

DIR

If you supply a directory or file using this option then Virus_Checker II will start scanning it as soon as it has started up.

1.52 AppIcon

Virus_Checker II AppIcon

=====

If Workbench is running when Virus_Checker II starts up it will put an Application Icon on the main Workbench Window. The reason for this AppIcon is for Workbench users who want to check files. Simply select the files/dirs you want to check, then drag them over to the Virus_Checker II AppIcon and drop them on it. Virus_Checker II will immediately start checking those things dropped on it.

*****NOTE*****

If Virus_Checker II finds a file called Virus_Checker_AppIcon.info in it's PROGDIR: then it will use this icon for the AppIcon instead of it's internal default one.

*****NOTE*****

Included in this archive you will also find a small collection of NewIcons, these Icons have especially been designed for Virus_Checker II by Lyle Zapato, he holds the complete copyright of these icons. You will find, next to a few drawers and a few main executable icons, two AppIcons in NewIcon style.

1.53 Files

Files "required" by Virus_Checker II and where they hide

=====

Virus_Checker II needs quite a few other files to function.

xfdmaster.library

This library is used to uncrunch packed files and unlink linked files. If you want to use it then it must be in LIBS: as well. Also needed in LIBS: is the sub-directory XFD. This is where some of the decrunchers are held.

BootBlock.library

This library must also go into LIBS: it is used to check bootblocks of disks. See Bootblock.brain as well

BootBlock.brain

This file is used with BootBlock.library and must go into the L: directory to be of use.

Virus_Checker.config

This holds the configuration data for Virus_Checker II. Once saved Virus_Checker II reads it on startup and sets it self up the way you tell it to. This file can be in one of 2 places. PROGDIR: or S:. Virus_Checker II knows where it loaded it from and will save it back there when told to. If the file does not exist at all and you save it it will be placed into PROGDIR:

Virus_Checker.watch

This file is a text file and can be changed with just a normal text editor. It holds the names of the files/directories being watched for changes. This file does NOT have to be present for Virus_CheckerII to run. This file will be in either PROGDIR: or S: Again Virus_Checker II knows where it loaded it from and will save it there. If it did not exist then it is saved to PROGDIR:

Virus_Checker.check

This file is a plain textfile and can be changed with just a normal text editor. It holds the names of the files/directories beeing checked for virus upon start-up. This file does NOT have to be present for Virus_CheckerII to run. This file will be in either PROGDIR: or S: Again Virus_Checker II knows where it loaded it from and will save it there. If it did not exist then it is saved to PROGDIR:

Virus_Checker.Arc

This file contains by default the LHA, LZX and ZIP specifications needed and used by the archive checking of Virus_CheckerII and will contain all future specifications of other archivers you add to it. This file is NOT a plain textfile, it also contains binary and should NOT be edited manually! This file

also doesn't have to be present for Virus_CheckerII to run, but if not found or found empty, Archive CHecking will not be possible. This file will be in either PROGDIR: or S: Again Virus_Checker II knows where it loaded it from and will save it there. If it did not exist then it is saved to PROGDIR:

VirusChecker.brain

This file contains the latest bootblock, link and file virus recognition streams, routines and removal codes. In fact, this file will probably be updated the most so that one does not have to download the complete archive everytime as is the case with some major viruskillers. This file should be put in either L: or PROGDIR:

VCBrain

This file is found in PROGDIR: or s: and holds the Bootblocks learned

Virus_Checker.key

This is the keyfile for Virus_Checker II and you should only have one of these if you have registered. It can be in one of 3 places.
PROGDIR:, The directory pointed to by the ENV: variable KEYPATH or in S:

1.54 Locale

Localization
=====

Virus_Checker II is now localized and about 172 odd text strings can be altered. If you wish to translate these strings into another language then please contact~me and I will send the information over to you.

Locale already done are

Nederlands
Danish
Norwegian Version 2.0 for VC_II 1.4 not received yet.
Serbian Version 2.0 for VC_II 1.4 not received yet.
Italian
French
German

If you plan to translate any of the strings, please contact me first so I can tell you if someone is already on this project and if not, to receive the latest catalog information. If you have translated the catalog, please send at least the .ct file (translated file) to me. If you are able to compile the catalog, feel free to do so. Be aware that I have from version 1.1 started at 1.00 with the catalog since a lot has changed and the catalog had not been changed dramatically. Now it has and the catalog also should be called Virus_CheckerIII.catalog with at least version 1.00. Do NOT! rename the old Virus_Checker.catalog to Virus_CheckerIII.catalog and change the version string,

since side-effects could occur from strange enforcer hits to hard crashes which might scare even the most advanced users.

1.55 How to install Virus_Checker II

Installing Virus_Checker II
=====

Virus_Checker II comes with it's own installer script. This installs Virus_Checker II onto the disk of your choice. It then asks where you want to run it from. The choices are S:\User-Startup, SYS:\WBStartup or Manually. It does NOT have to move files around anymore, it uses a project icon to start Virus_CheckerII from WBStartup.

I have heard of some complaints about this script, if someone has problems with the script, please notify me KINDLY of this fact. I heard from John that some people acted very violently through e-mail about stuff not working. Remember that programmers are people too and that every piece of software can have bugs or problems.

Though, a lot of problems that have been occuring have been fixed now.

1.56 4eb9 Link Virus

Possible \$4eb9 Link Virus
=====

This is a special check that is performed if you have turned off the XFDMaster library. With the XFDMaster library, the library checks if it is a so called 4eb9-linked file. If so, it unlinks both files and also tries to decrunch the linked files (since most linked files are also crunched).

If you happen to have turned off the XFDMaster library (which I do not recommend since it would seriously degrade your safety as crunched files aren't checked and might contain viruses in the crunched part) Virus_CheckerII is still able to tell you if the file is a 'Possible \$4eb9 Link File'.

It warns you of a possible virus. The current practice in viruses is to use a normal program of some fame, link in a virus and then call it something new and better. The lzx, dopus, etc fakes are all examples of this.

When you get this message come up it does not mean that the program is a virus but to be safe be extremely careful with it. Write protect all drives, switch off the computer for at least 30 seconds after you have finished running the program.

You could also always turn on the XFDMaster library and check the file for linked/decrunched viruses.

1.57 Archives

Checking into Archives

=====

This option is only possible if you are registered. Once registered you can get Virus_Checker II to look into these files.

Virus_Checker II can not (yet) remove any viruses that are in the files but will warn you. When it finds one it will give a special out to the Scan window or the Arexx variables in the format

```
Lhafile.lha -> infected.exe = SCA Virus
```

The Lhafile.lha is the filename of the infected archive, which file is infected is shown after the '->'.

You can now, with the help of the Archive Options window, have Virus_CheckerII check inside EVERY archive you desire. For now a few restrictions apply to the addition of new types. LHA and LZX archives are really easy so they have been added by default although they can be removed. Restrictions occur in the form of the command which is started to unpack an archive. You HAVE to have two %s wildcards in the command string and the first is always the wildcard that is replaced with the location and name of the archive. The second is always the wildcard that is replaced with the name of the destination directory.

I do not recommend the usage of zip archives. It seems that the UnZip program used to unarchive zip archives doesn't like to be in the Virus_Checker II environment and crashes every time. Although I have experienced situation in which the zip archives were unarchived successfully, this is not a stable method. I am working on it.

in the future I will probably add a example script and make the wildcards position independent by using %f %p but this is NOT the case at the moment.

And also have Virus_CheckerII remove viruses from the archives.

1.58 Arexx

Virus_Checker II Arexx commands

=====

Virus_Checker II does have an Arexx port and the name of the port is Virus_CheckerII. With this port you can get Virus_Checker II to do things from external programs. Commands supported so far are

QUIT

eg. address 'Virus_CheckerII' 'quit'

This causes Virus_CheckerII to shut down and quit

RELOADBRAIN

eg address 'Virus_CheckerII' 'reloadbrain'

This will cause Virus_Checker II to reload it's brain file. With this command you can update the brain and get Virus_Checker II to reload it without having to get Virus_Checker II to stop

SCAN

eg address 'Virus_CheckerII' 'scan filename'

This command causes Virus_Checker II to go out and scan the file or directory given. All requesters will be turned off so it can be used un-attended. The get the results back to the program Virus_Checker II sets some ARexx variables. These are a stem variable called VCHECK

VCHECK.0.0 holds how many viruses where found. 0 = none.

VCHECK.i.1 holds the file names of the files infected

VCHECK.i.2 holds the name of the virus that infected the file

for example if Virus_Checker II found 2 files infected.

1. SYS:C/LIST infected with the SCA virus
 2. SYS:WBStartup/runme infected with the Saddam virus and
- SYS: was scanned the results would be

VCHECK.0.0 = 2

VCHECK.1.1 = SYS:C/LIST

VCHECK.1.2 = SCA

VCHECK.2.1 = SYS:WBStartup/runme

VCHECK.2.2 = Saddam

NOTIFYWATCH

eg address 'Virus_CheckerII' 'NOTIFYWATCH password'

This command and the next are very special. They work in conjunction with the file watch list. Whenever Virus_Checker II gets a signal that a file or directory that it is watching has changed it will warn you. If you have Autoscan turned on and give this command to Virus_Checker II it will report to you the results. The command will not return to you until something has happened and that is why the following command is for.

If you need to cancel the notifywatch then you will need to use the following command to get it to release your script.

This command is of ideal use for BBS systems. You could set Virus_Checker II to watch your uploads: directory and when a user uploads a file it will scan it and return the results to you.

An example is

```
/* Notifywatch example */
```

```
options results
```

```
address 'Virus_CheckerII' 'NOTIFYWATCH Mypassword'
```

```
if VCHECK.0.0 = 0 then do
```

```
    say 'No viruses found in scan'
```

```
exit
```

```

end
say 'Viruses found: ='VCHECK.0.0
do i o 1 to VCHECK.0.0
    say 'Filename was 'VCHECK.i.1' and virus was 'VCHECK.i.2
end
exit

```

STOPNOTIFYWATCH

eg. address 'Virus_CheckerII' 'STOPNOTIFYWATCH Mypassword'

This command will free a watch started by the NOTIFYWATCH command. You only need to give it the password given in the command above. You will need to do it from a separate script as the other one will be waiting for the return still.

NOTE: The password is case sensitive and needs to match the one given in the NOTIFYWATCH command

1.59 VC II Related

Bulletin Boards:

Virus Help Denmark's support BBS

```

Name.....: XPoint BBS
SysOp.....: Benny Pedersen
Phone Number....: +45 6381 8005
Open.....: 24 Hours
Modem type.....: 33.600 v.34+ & ISDN
Country.....: Denmark
Request.....: Viruschecker
Note.....: Always the newest viruskillers. Modem users all over the
            world now know where they can find a clean copy of the newest
            VC_II.
            With magic request name _VIRUSCHECKER_

```

Virus Help Team Netherlands' support BBS

```

Name.....: United Bulletin System 1
Sysop.....: Willem van Dijk
Phone.....: +31 (0)70 4450416
Open.....: 24hrs
Modem.....: 28k8 & ISDN
Country.....: Netherlands
Request.....:
Note.....: Almost all possible known echo mailnetworks in the
            netherlands available here aswell as the latest software
            and ofcourse the latest version of VirusCheckerII and it's
            brainfile can be found here.
            Also official registration site for VirusCheckerII for the
            Netherlands, easy registration can be done through this board
            when living in the Netherlands.

```

VirusCheckerII official Dutch support BBS

Name.....: The Cube
Sysop.....: Locutus
Phone.....: +31 (0)70 3680039
Open.....: 24hrs
Modem.....: 28k8
Country.....: Netherlands
Request.....:
Note.....: A fast Amiga software board.
 Also hardware products can be bought here.
 A special conference for VirusCheckerII has been created here
 all latest official releases will be placed there as well.

Official VirusCheckerII UK Registration Site

Name.....: Elevate BBS
Sysop.....: Paul Compton
Phone.....: +44 (0) 1329319028
Open.....: 24hrs
Modem.....:
Country.....: United Kingdom
Request.....:
Note.....: The official registration site for VirusChecker II
 for the United-Kingdom. If you are living in the UK and want
 to register the easy way, then try and contact this BBS.

Internet:

www.elevate.demon.co.uk	Elevate BBS, Official UK Registration site for VirusCheckerII
home4.inet.tele.dk/vht-dk	Home of Virus Help Team Denmark, free PC, Amiga and Mac AV utilities. You can also find the latest updates of VirusCheckerII and the brainfile here.

And at most Aminet mirrors offcourse.

If you have any VirusChecker related addresses that are not on this list,
please pass them through so that I can add them to the list after I have
checked them out offcourse :).

1.60 FAQ

Frequently Asked Questions

=====

- * How do I check multiple drives?

Well, this is a pretty easy one, you just have to know it. It can althouh only
be achieved when you have enabled the AppIcon.
When you have enabled the AppIcon, multi-select the drives you want to check by
holding down the SHIFT button and select them, then drag the drives over to the
Appicon of Virus_CheckerII and all drives will be scanned.

- * How do I check multiple files?
-

When you want to check a complete directory, no problem there. Enter the directory, don't select anything further and press ok. Virus_CheckerII will then detect that it is dealing with a directory and will immediately start scanning the directory. If you only want to select a few files then a small problem occurs. Virus_CheckerII does not yet support multi-selecting files in it's file requester. I hope to have this added in the near future. For now you can achieve this by using the AppIcon. Multi-select the files by pressing the SHIFT button and select them in the workbench. Then drag the selection to the AppIcon and Virus_CheckerII will automatically check these files. For Dopus 5 magellan version users, a slight problem will rise. You can't just drag these to the appicon. Since you can not drag the selection to the workbench when you are in names-mode, you should select Icon or Icon Action and if the file does not appear to be in the list, then also select the Show All option. Then Multi-select them by SHIFTing and drag the selection to the AppIcon. Virus_CheckerII will then automatically check these files.

* Why doesn't the Window Snapshot work?

Well, it does work, just open the window by pressing the right mouse-button. Then place the window where you would like to have it positioned. Then select 'Snapshot Window' (Window menu) from the menubar and select 'Save Config' (Project menu) from the same menubar. Then the position of the window has been stored and Virus_CheckerII will always try to open it's window on this position if it can.

* How can I snapshot the position of the MWB appicon?

Unfortunately, this isn't possible yet. If you want an appicon that can be positioned on your workbench, I suggest you use an external appicon. See Workbench AppIcon on how to do use such an icon.

More questions and answers will soon be added.

1.61 Disclaimer

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1.62 Author Info

Here is, for fast reference, how to contact me, below I will tell something about myself and then some:

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Well, it all started back then. When I was merely 8 years old and my dear ol' dad bought his first and last Amiga (who can blame the damned and condemn the fool? I know better after having been touched by the PC and Mac... I RAN to the Amiga :)) which was the Amiga 1000 which then was shipped with the 1.1 kickstart. Now that was real cool, we had had a c64 before but now we could use icons and press them and multitask and wow and so on. ←

Well, a new world opened itself up and it did not take long before I was charmed by this delightfull electronical woman and had me so wound up around her finger that I learned English really fast. Like: say, Alex, what the hell are you doing? Shouldn't you be studying English or something like your other 10/11 year old classmates? Er, well miss, I have already finished. Say WHAT?... Er... well, go play then.. And I played a lot back then :) Anyway, basic was IT you know back then for me I could not wish for more. Although playing Larry (which kid didn't? :)) and for 3 years SpaceQuest 1 (hey, you can't be a fast learner in EVERY field :)), I realised I wanted to do the same, but with basic? Well, that gave me some disadvantages since AmigaBasic was the only shit I knew and assembler was something geniuses used. So I started making ascii games (damn, were they UGLY!) anyway, that was not enough so I bought Amos Classic a few years later (through a Magazine) and created some nice thingies, but GFX (strangely enough) in the computer I could not create (although I am studying animation right now which has something to do with that :)).

I somewhere got to know dudes from AGABBS. I started with a simple tool: AgaPoll. This tool would make it possible for MaxsBBS users (which I used at that time) and sysops to have MaxsBBS use an external mailer to call out and send it's mail. From there a lot of products followed, starting in Hisoft Basic which could be compiled but was slow, to programs in Amiga_E. Some have seen the public, some have seen a few systems and some have not even seen the light (my computer is very dark :)). Not much later when I was working on DevilCheck and LiquidStyler, I realised that I had to buy Amiga_E because the demo version which could handle up to 32k source files could not handle my code anymore (i had a some what old registered version which I got with a magazine but things get outdated and upgraded and bugfixed), so I bought it and was happily amused to see that my huge DVC code was compiled succesfully. However DevilCheck did not receive lot's of response so I lost my interest in that project (as had happened with a lot of other products) especially since most of the stuff I wanted in, myself, had been put in already.

The DayDream BBS had been sold and the new author contacted me since something that I had created apparently had reached him (I had by then created a few DayDream BBS doors) and so I offered to help him. He said he could use some help in the Fidonet area since he had no idea what to do with this whatsoever. I myself was connected to a lot of networks at that time and so started to recode the DreamToss utility which handled importing and exporting of fidonet-compatible mail-packets since the old util had not been updated since the stone-age and a lot of bugs were still in there. I did not know anything about assembler at the time and since DreamToss was written in Asm I just HAD to recode it. Next to the fact that there were nearly NO comments in it. I realise now, that I might be able to figure it

out at present (viruses don't come with handy comments you know :)) but back then I had no clue. Well, I had been extremely active at school and with my hobby but two years ago this all changed. Things started to get really busy at our school. In the first year I had already had the pleasure of experiencing the pressure that comes with a deadline. 12 or 16 hour days were very common and two years ago this started again right after the summer vacation when I and a friend of mine started to animate two animations for the KRO (television station here in the Netherlands) not at the same time but had a deadline set at 3 weeks from the starting date.

Well, this resulted in neglections of my projects and after this busy period, I had to recode a lot of DevilCheck and complete recode of TicMover (a tic file manager for a.o. DayDream BBS) since I forgot what most of the stuff did. TicMover had been finished but again no reaction, same as with the new update of DevilCheck which got a new feature and some bugfixes. Well, DreamToss was going very well but after a while I got bored with it since I could not fix a lot of problems occuring as a result of the difficult structure of fidonet stuff. Then last year Jan Andersen contacted Cor de Bruin who had heard fom us apparently and asked if we could create a new VHT here in the Netherlands adn if we could supply a coder.

Well, we were glad to help and a coder was no problem. I gave ALL the code of DreamToss as well as ALL research material (5 mb or so) to Theofiel, a friend of again a new coder of DayDream BBS who had been waiting for the new DreamToss for a long time now. So this project I bounced and after ditching some other stuff I started doing some research on Assembler and started looking at some assembler stuff. At first I did not understand anything but as the days and weeks went by, I grew in to it and in (I guess) 3 months I learned myself to code in Assembler. Well, a little bit. When I got the Virus_Checker code I still did not understand a lot of it but after studying most of the things became apparent. Jaap v.d. Bos helped me a lot especially in mastering stuff on the binary level, but most of it I had to do myself. I still don't understand everything and I learn a lot each day as I go through the code and create a new feature (or bug, or both :)) which causes the compiler to scream for longer jumps and causes me to go through the code again. But I am learning and with your help, I can become an experienced assembler coder.

1.63 Credits

CREDITS

=====

My thanks go out to... (in no particular order)

Georg Hörmann For the inclusion of xfdmaster.library.
Also, I looked at the vector show of VirusZ II and used the layout in my own program to setup a Vector Show routine.
The ROUTINES however are 100% mine!
Also thanks for fixing the 1.20 version of the xfdmaster library. The bug is gone :).

Leo Davidson For Arexx script for use with Virus_Checker II and DOpus 5

ARexx Developed on an Amiga 1000 and is a 100% Amiga product.

Jan Andersen For sending all the viruses and helping me get information everywhere. For getting Macro68 for me, sending the manual of Macro68, getting translators for the catalogs, finding bugs, checking infections and recognitions and lots and lots and lots and lots and lots more.. :)

Dave Jones For sending the removal and recognition code of:
 - ZIB virus
 - BOKOR 1.01/1.05/1.06/1.1
Information and help on the Happy New Year 96 virus.
Help with the ShortenHunk code for removing viruses from Hunks and lots more.

Michael Knoke For allowing me to have and use of his FormatProtection routines which were taken from his great program:
Master Control Program

Dave Dustin 90 percent of all my thanks go out to you offcourse for donating the VirusChecker source to the Virus Help Team DK. If it wasn't for you, VirusChecker would still be a two years old outdated virus hunting utility. So please accept my apologies for forgetting I won't pretend to have a lot of reasons, I just forgot.

John Veldthuis Offcourse, for creating VirusChecker and supporting me with a lot of help and providing all the data I needed, especially for his help with Macro68 and the includes

Jan v/d Baard For creating BGUI.library which gives VirusChecker it's great easy to use interface (although some think otherwise)

Heiner Schnee­gold For help with HitchHiker 2.01, ZIB link virus, the HANF virus and some more info and hints/tips.

Jim Buckley For his help with the guide and the great response he is giving me through his letters the new documentation on the buttons is all his doing for which I am really gratefull.

Locale translations

Nederlands	Jan Hendrik Lots, Updated by Alex van Niel
Danish	Jan Andersen
Serbian	Petar Cuckovic
Italian	Giacomo Magnini
French	Didier Giron
German	Dirk Stöcker

If this list isn't correct, please let me know. I seem to have lost track of who does translation and who doesn't :(...sorry.

All other catalogs will follow soon (I hope :))

And especially to my Beta Testers who put up with me everytime.
In no particular order

Lars Kristensen

Torben Danoe
Jim Maciorowski
Jan Andersen
Perry van Haastrecht
Michel Beij
Willem van Dijk
Remko Wiersma
Sieger Meerenboer
Henrik Lauridsen
Bastiaan Bakker
Giacomo Magnini

And further to all registered users for their loyalty and everybody I forgot...

Alex van Niel
=====

1.64 History

1/1/98

Fixed a little locale error. The ToolTipHelp option (a help text that pops up when you leave the mouse pointer over a button for a few seconds) was only displayed on two buttons in the main window and were NOT localized. Thanks to Dirk Stoecker for reporting this. I have even gone a bit further and gave ALL buttons a localized pop up message (same as the message that pops up when HELP is pressed).

Also "fixed" the fake "bgui.library missing" message a lot of people got. After testing and debugging I discovered in the docs of BGUI that BGUI itself needs commodities.library, asl.library and I think it was the gadtools.library. Anyway, when testing the bgui.library wouldn't open (offcourse since the commodities lib was missing) so I decided to let VCII open the other libs BGUI needs first and if one of them is not present, VC II will report this before claiming not to be able to open BGUI. I hope a lot of problems concerning the libs are fixed now. Thanks go out to a lot of you out there, too many to mention here.

Changed the locale strings a LOT! If you are planning to translate the catalogs or have done this already, check the .cd file again. A lot of error messages have been removed (especially the library error messages) and have been replaced by just one string. Thanks go out to Dirk Stoecker for his suggestion to remove most of those ERROR|Could not... etc. messages. More optimisations will follow.

3/1/98

Did some preparations for the Archive Options Window. Window is now finished, program mechanics only have to be created and adjusted to fit in. Already registered users can take a look but can not do anything with it alas.

Fixed also a possible problem. Vector Window was not closed automatically when someone pressed QUIT when the window was still open. Window is now closed if it was opened.

6/1/98

Fixed a really serious problem with the Vector Show feature.
Added Happy New year 98 link virus to the Brainfile.
Fixed some smaller problems with VirusChecker II (internal).

7/1/98

Fixed memory disabling of HitchHiker 2.01 link virus to brain
Fixed memory disabling of Happy New Year 98 link virus
Added Happy New Year 98 BootBlock virus recognition to brain
Finally fixed the big bug in VectorShow, pushed the stack too far back.. woops.

8/1/98

Fixed ZIB link virus removal for LoadWB files infected by the ZIB installer.
Fixed some possible future bugs in HitchHiker 2.01 link virus removal.

9/1/98

Fixed a few severe enforcer hits caused by the checking for Infiltrator virus.
Expanded Archive Checking a lot! Added the use of an external configfile which will later on be editable (I do NOT suggest you edit this file manually)
Removed the two year old history information in this guide.

10/1/98

Finished Archive Options window. New archive entries can be added or removed.
Not yet edited but that can you can work around that by removing the entry that has to be edited and add it again.

11/1/98

Optimised and debugged the Installer script. Found a few bugs reported by a lot of you out there, thank you very much. I think you will like what I have done to the installer. Someone reported to me that Virus_CheckerII was not started correctly from the WBStartup, this has been fixed by the use of a Project icon. The bug occuring when VC_II was installed in the User-Startup has now also been removed, it now properly adds 'Virus_CheckerII' to the file instead of 'Virus_Checker'.

A few other bugs have been removed and the supplied icons are also copied to wherever you want it to be copied. The complete script should now work ok again.

20/1/98

Added ADO! 1,2 and 3 Trojan Virus to brain

Fixed a bug occuring in comparing of strings. This sometimes caused unwanted removals of CheckNow and Watch entries but has been fixed now, it should even work faster now since I optimised the code a bit.

Also optimised CheckNow routine, double instructions removed. Should even make it more stable.

CheckNow button ghosted when list is empty. If I remember correctly, I have Lars Kristensen to thank for this suggestion.

Optimised Archive checking a little. Replaced Read() for FGetC() command since ID strings are sometimes not bigger then 3 or 4 bytes and would cause unneeded overhead with the conventional unbuffered Read() compared to the buffered FGetC(), I put the FGetC() command in.

21/01/98

Did some optimisation of the code itself. Some minor problems and bugs repaired.

Done some extra work on the CheckNow and Watch windows. Remove buttons are also ghosted when list is empty.

Optimised and removed some code.

22/01/98

Fixed a small bug in the ArcOpts window. Sometimes a flag was cleared which should not and unsaved data would go lost.

Adjusted size of iconified window a bit.

Fixed a small bug in the CheckFile routine. Sometimes a FreeMem() was given instead of a FreeVec(). Was the result of removing the unpack.library.

Fixed a really stupid bug in the Arexx port. After I had optimised the Strcmp routine, which was not working correctly with the list entries, the Arexx string commands were not recognised anymore. Created a special Strcmp routine for the Arexx port and Arexx works ok again.

25/01/98

Fixed a tiny little bug in the memory check.

Added recog for SnoopDos 3.0 in memory. If SnoopDos 3.0 changes the LoadSeg, Virus_CheckerII will know about this and will NOT ask you if you want to Restore the LoadSeg. I don't know if this works with all Snoopdos versions. I KNOW it does NOT!!! work with 1.7 because 1.7 works a lot different from 3.0 and I have not been able to find a way to detect it's presence SAFELY. Other versions I don't have acces to, so it might only work with 3.0.

Added also the 'Checking Disk in drive xxx:' to the Iconified window.

26/01/98

Worked very late to include another feature (0:34am). Added font sensitivity concerning the titles of the main windows. Idea suggested by Jan Andersen.

```
*****
**  Version 1.1 of Virus_CheckerII & Version 2.2 of VirusChecker.brain  **
**  Released:    26/01/98                                           **
**  Size       :   68.008 (Virus_CheckerII)                        **
**              15.284 (VirusChecker.brain)                        **
*****
```

28/01/98

YES!!! Finally fixed the 68000 bug which has been stalking me for months now. Damn, just forgot that in the new recogs, Virus_CheckerII searches for certain string at an uneven position. 68000 machines don't like this and now I realise that the compiler could not warn me for this either. Check Now window does weird sometimes on a 68000 machine, but hey, you can't win 'm all :). At least it starts ok and scans files ok. Check Now 68000 bug is next.

05/02/98

Fixed finally all smaller 68000 bugs occuring in brain. Should work ok now.

09/02/98

Made reporting of viruses in arcs more clearer. Infected file in archive is now also reported.

Virus_CheckerII now also reports that it is extracting an archive. This prevents you from thinking that Virus_CheckerII has crashed or something. Just so you know what is happening. It also reports that it is cleaning up the directory it unarchived in, so you won't get worried when it looks like Virus_CheckerII isn't doing anything although it is very busy. (In fact, I was really annoyed myself sometimes, that I had to wait for something and did not know for what in one glance)

11/02/98

Fixed a bug occurring with files that were infected when they were crunched. HNY98 virus for instance infected a file when crunched, VC would decrunch it and ofcourse VC would not find the infection since the infection was not decrunched. I have rewritten a small part and it could even speed some things up. So, crunched files are now checked twice for extra security. The small speed decrease is just a small price to pay for security. Thanks to Jan Andersen for reporting this.

13/02/98

Finished working on a new feature. This feature is only available to registered users for now. It enables registered users to predetermine how an infected file should be handled. If this feature is completely turned off, or just one part, the normal requester appears. You can now also turn off the error requesters. You can find it in the Options window under Auto Repair. Thanks to Micael Johnstone for the idea behind this Auto Repair function.

```
*****  
** Version 1.2 of Virus_CheckerII & Version 2.3 of VirusChecker.brain **  
** Released:    16/02/98                                           **  
** Size       :   72.764 (Virus_CheckerII)                        **  
**                               15.232 (VirusChecker.brain)        **  
*****
```

17/02/98

Discovered that the unpacking of archives did not work ok anymore...Silly me, I had removed something that I should not have. Sorry to all you guys and girls that have had troubles with it.

```

*****
**  Version 1.3 of Virus_CheckerII                               **
**  Released:   17/02/98                                         **
**  Size      : 72.892 (Virus_CheckerII)                       **
*****

```

21/02/98

Fixed the Archive Options edit function. You can now edit the archive options entries very easy.

Added MaxsBBS trojan virus, type A,B & C to brain

22/02/98

Added MaxsBBS Trojan virus type D to brain

```

*****
**  Version 2.4 of VirusChecker.brain                               **
**  Released:   25/02/98                                           **
**

```

```
** Size      : 15.456 (VirusChecker.brain) **
*****
```

26/02/98

Virus_CheckerII now reports if the brainfile was not detected.

27/02/98

Delay in main window fixed, window notification was sometimes interrupted because I forgot to add a branch. Delay is now gone.

Virus_CheckerII now initialises the catalog strings at the start of the code and not when the code needs it to. This might speed things up a little and makes managing the localization a lot easier.

28/02/98

Moved some more strings from inside Virus_CheckerII to the catalog.

Replaced almost all | tokens with \n (except for the Ignore|Save etc. strings!! these HAVE to have this | separator for EasyRequest() so don't remove those) Suggested by Dirk Stoecker.

03/03/98

Optimised Archive Options menu. Moved the Move button one window up (to the Arc2Opts window) and fixed some more internal stuff.

05/03/98

Working on an Unlink possibility within Virus_CheckerII so it can handle 4eb9 files much better.

Fixed the AECrack Trojan handling. Now finally is recognised as Wireface (this AECrack almost destroyed my whole HD when testing some stuff on it, wrong keystrokes are lethal you know :))

Working on the fail recog of Intro.exe. This is actually a BioMechanic virus but VirusCheckerII seems to recognise it as a Wireface virus. Why is beyond me right now. I am working on it.

06/03/98

Added Amos coded ReOrgit Trojan to brainfile.
Added Disaster Master 2 Installer to brainfile
Added Gotcha Trojan virus to brainfile
Added Gotcha 2 Trojan virus to brainfile
Added WireFire Trojan virus to brainfile
Fixed all types of Wireface Trojan (a lot of false and fail recog)
(Intro.exe file now correctly recognised as a Biomechanic file)

07/03/98

Added VirusHunter trojan virus to brainfile
Finished Unlink function in Virus_CheckerII. Now \$4eb9 and the like can be unlinked with the help of the Xfdmaster library.

11/03/98

Added first HANF identification routines to brain.
Fixed the guide so people with Hires monitors don't have to scroll that much to be able to see all the text. Also replaced viri with viruses. All thanks to Mr. Jim Buckley for pointing these things out to me.

12/03/98

First repair routines added to brainfile. Doesn't work 100% every time but will be fixed asap. Are not working correct so no implemented in version 2.5

```
*****
**  Version 1.4 of Virus_CheckerII & Version 2.5 of VirusChecker.brain  **
**  Released:   16/03/98                                           **
**  Size      :   73.800 (Virus_CheckerII) 16.112 (VirusChecker.brain) **
*****
```

22/03/98

Added Port-67 Trojan to the brainfile

23/03/98

Added BEOL3 memory detection and removal to brain
Working on HANF memory detection and removal

24/03/98

Finished detection of HANF virus in memory, still working on removal

25/03/98

Made almost all keyboard shortcuts completely localizable. VirusCheckerII just searches for the underscore in the text, takes the next letter and makes that the shortcut key. If no underscore is detected, no shortcut is generated and if two shortcuts are the same, then only the first one will be used (so if one shortcut doesn't work, there must be already a shortcut with the same key). A few strings haven't been localized yet and so the keyboard shortcuts aren't localizable. This will follow soon now. (I have kept my promise about the shortcuts now haven't I?)

Changed and added the new and improved Registration Request form that was adapted and enhanced by Paul Compton. Thanks Paul.

01/04/98

After a short time off, I discovered that the BootBlock virus detection in files wasn't done neatly. Sometimes this lead to strange false recogs. It took me a while before I discovered what it was: again a few registers mis-aligned... great stuff assembler..

Added Selputar BB clone to brain.

02/04/98

Added Strange Atmosphere Installer virus to brain (IconX and Assign files)

Added the lame Shocked/Trick "joke" executable and archive. Some jerk thought it would be nice to have people experience a big scare. Well, I don't really like users getting scared so I decided to add this archive and file to the brain. It doesn't cause any damage itself but scared users might reset their machine and THAT can cause severe damage. I don't think things like this are funny, on the contrary... Please focus on some usefull products for the Amiga instead of making crap like this.

05/04/98

Did some more work on the HANF memory part.
Enhanced main code.

11/04/98

Added Strange Atmosphere Link Virus to brain
Fixed a small bug in the HANF memory removal
Did some more work on HANF removal, not yet finished though
Added Strange Atmosphere memory detection

12/04/98

Finished Strange Atmosphere memory removal

Fixed a rare occuring bug in brainfile, freeze of system fixed

13/04/98

Made some more strings localizable

Changed way the 'Checking DFx:' is presented (faster and cleaner)

15/04/98

Done more HANF attempts, none fully succesfull yet

19/04/98

Added a lot of stuff to the brain, see brain history

```
*****  
**  Version 1.5 of Virus_CheckerII & Version 2.6 of VirusChecker.brain  **  
**  Released:   19/04/98                                           **  
**  Size       :   73.520 (Virus_CheckerII) 17.748 (VirusChecker.brain) **  
*****
```

1.65 Brain History

2.00 Released 26 December 1997 Size 11788

Added Happy New Year 96 link virus to brain
Added LiSA FUCKUP v3.0 installer to brain
Added BOKOR 1.01/1.05/1.06/1.1 Link Virus to brain
Added ZIB Link virus to brain
Added SPatch Trojan (ZIB Installer) to brain
Added LoadWB infection removal code to brain
Added HappyNewYear96 Installer to brain
Added rapidly the HNY installer 2 and MUI fake patch.
This will be added in a better way next release, sorry for now.

2.1 Released 27 December 1997 Size 11788

Changed HNY Clone Installer detection, was sometimes claiming to find HNY Clone Installer when in fact the file was clean, sorry about that. Thanks to Karl P Schmidt for finding this bug, my apologies.

2.2 Released 26 January 1998 Size 15284

Added HitchHiker 2.01 Installer Virus
Added HitchHiker 2.01 Link Virus
Added Lisa Fuckup v2.0 Trojan Virus
Added Happy New Year 98 link and bootblock virus
Fixed ZIB link virus removal for LoadWB files infected by the ZIB installer.
Fixed some possible future bugs in HitchHiker 2.01 link virus removal.
Fixed a few severe enforcer hits caused by Infiltrator virus check.

Added ADO!-1-Trojan Virus to brain
Added ADO!-2-Trojan Virus to brain
Added ADO!-3-Trojan Virus to brain

2.3 Released 16 February 1998 Size 15232

Fixed 68000 bug also occuring in Brainfile.

2.4 Released 25 February 1998 Size 15456

Added MaxsBBS Trojan (in Amos programmed MaxsBBS destroyer) Type A, B, C & D
Added Happy New Year 96 multi-hunk recognition. Now also recognises hunk 11
infections and other hunk infections off-course :)

2.5 Released 16 March 1998 Size 16112

Added file recog and removal for B.E.O.L 3 link virus
Added Disaster Master 2 Installer
Added ReOrgit Trojan virus
Added Gotcha Trojan virus
Added Gotcha 2 Trojan virus
Added WireFire Trojan virus
Added VirusHunter Trojan virus
Added HANF Link Virus file recognition (NOT YET REMOVAL!!)
Fixed all types of Wireface Trojan (a lot of false and fail recogs)
Optimised HNY96 multi-hunk recog (doesn't crash on uneven hunks anymore).

2.6 Released 19 April 1998 Size 17.748

Added Port-67 Trojan
Added BEOL3 memory detection and removal
Added HANF memory detection/removal
Added Sepultura BootBlock virus
Added Strange Atmosphere Installer virus (IconX and Assign files)
Added the lame Shocked/Trick "joke" executable and archive
Added Strange Atmosphere virus
Freezing of system fixed
Added AAA-Enhancer Trojan
Added Amiblack Trojan
Added BBS Ram Disk 2 Trojan
Added Aibon 1 BBS Trojan
Added M_Chat (ATX-Chat) BBS Trojan
Added PB Party BBS Trojan
Added Powertrader BBS Trojan
Added Stockmarket BBS Trojan

1.66 Future

To Do List

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Note: Any item that has been placed on this list will be implemented, although I can not be and will not be pressured to add such a feature any faster then I see fit. When I put any item in this list I am considering if I can already do some work in order to satisfy those who requested the

feature or are waiting for it but I will do this only on free will. I can not and will not guarantee that a feature will be implemented in the next version unless I mention this somewhere and even then I can not be held responsible for not implementing a certain feature. You have to realise that coding VirusChecker II is purely a hobby of mine and although I throw myself sometimes for days on a row on VirusChecker II it mainly is something I like to do and so I don't really like to be pushed. However, people that want to ask about or request a certain feature can always do so, even if the feature is already on the list I will answer any question/request/etc.

To Do/Future developement ideas in no particular order:

- More levels of archive checking (only one level supported now)
- Vector Show expand and refined so that it contains at least the changed vectors and hides those which are considered "save". And add the showing of the KickMemList and KickTagList entries if present.
- Device formatting protection and RDB protection (possibly also saving of this file in order to back this up and store it for repair usage)
- Fix BOKOR 1.1 type B detection (type A is detected)
- Add possibility to have Virus_Checker create a logfile. Thanks to Remko Wiersma for this great idea.
- Add recognition for any version of Snoopdos so that the user will not be bothered with a requester asking to restore the LoadSeg.
- Add all the older viruses.
- Change the method of opening windows. Now windows are opened along the full width of the screen. Eventually the windows will have to open along the size of the raster. This will enable users to have bigger screens then visible open and still able to use the windows of Virus_CheckerII
- Add possibility for a default directory so Virus_CheckerII will open it's requester in a user defined directory. Thanks to Dale Frameli for suggesting this.
- Multiple file selection in the requester. Thanks Dale Frameli and others that suggested this to me.

If you have any suggestions or questions please write to me.
