

DeepX

COLLABORATORS

	<i>TITLE :</i> DeepX		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		February 12, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

DeepX

1.1 DeepX

DeepX 1.1 (28-Mar-96)

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Copyright

The DeepX's rights

Requirements

What DeepX needs to work

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For novice users

DeepX Info

More info about DeepX

Features

What DeepX can do

Preferences

How to use DeepXPrefs

Thanks

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History

How DeepX grown up

1.2 copyright

DeepX is still FREeware. It means that you MUST spread it for FREE. Before you put DeepX on a cover disk for a magazine, on some CD-ROM (except AmiNet), or want to spread it to the public in other way, it would be nice to let me know about it.

You are NOT ALLOWED to modify the program in any way, or any part of it for any other purpose than than mentioned in this documentation.

The author is not responsible for any damage or data lost caused by DeepX. You are using it for your own risk. But don't worry. I think it's quite stable.

1.3 DeepX's Requirements

DeepX needs:

- * Kickstart 2.04 (37.175) or newer
- # asl.library
- * commodities.library
- * xpkmaster.library v2+ or newer
- * some xpk sublibraries
- * optional locale.library

1.4 Quick Start

Let's try to make DeepX working, without installing it for good. After this quick tutorial you will know is it worth to use DeepX or not. Note that you must have installed xpkmaster.library with some of its sublibraries.

1. Run DeepX by double-clicking on its icon or executing it from shell.
 2. The same way load DeepXPrefs to edit preferences. Select 'Tasks Setup Widnow'.
 3. On the right side of the window you will see the flags of the default client (every client not shown in the client's list). Turn off 'Unpack Files' and 'Fix File Size'.
 4. Click on the 'New' gadget below the list on the left, to add client. Type 'type' in the gadget called 'Current Client' (should be already activated). 'type' is a Shell command which we want to show packed files. You do not have to change flags, because they are already set to 'Unpack Files' and 'Fix File Size'.
 5. Click again on the 'New' gadget and enter 'dir' as the next command, but this time turn off 'Unpack Files' and 'Fix File Size' flags and activate 'Pack Files' (by clicking on the check box gadgets).
 6. Now you have to set a packer. Click on the 'XPK Packer Config' gadget. You will see config window now. Select, for example, 'NUKE' packer in the listview and click 'OK'.
-

7. Now you will see field called 'Packer' set to 'NUKE'.
8. Now you can close the window and click on the 'Use' gadget. Prefernces editor will quit.
9. Because you set 'dir' command to pack every file it saves, try to save result of its work to a file, for example: `dir sys: >ram:test`
10. Now try to see the 'test' file. Because the only command that is able to read unpacked files (via DeepX) is 'type', try: `type ram:test`
You will see the directory list previously generated by Dir command.
11. To turn DeepX off type gain its name or double-click on ots icon. You will see the good bye requester.

1.5 More about DeepX

You can unload DeepX by executing its again or clicking on 'Remove' gadget in Exchange Commodity.

DeepX can be easily disabled by changing state to 'Inactive' in Exchange Commodity. It is better than killing it, because all opened files are still handled.

DeepX may refuse quit in two cases:

1. Some files are still in use (there are not Close()ed), so DeepX will show: "I have opened <n> temporary file(s)". You should wait for some DeepX clients to finish and then try to quit again.
2. Dos library vectors, which DeepX uses, were changed, so DeepX will show: "Someone patched DOS functions after me". This may be caused by some other system patcher or virus. This is also caused by xpkCRM2.library (CrM.library in particular), so when you use CRM2 packer there is no way to turn DeepX off.

DeepX tries to load its preferences from ENV:DeepX.prefs. If ENV: assign doesn't exist, DeepX won't start. If preferences don't exist, DeepX uses the following defaults:

- temporary directory is set to 'RAM:'
- timeout is set to 5 seconds
- DeepX starts activated and enables global unpacking and size correcting

DeepX will ask you to enter a password, if needed. The request window will be opened then on the actual screnn.

1.6 features

Features:

- * DeepX supports specified processes (called clients) indicated by their task or command name; every client has its own preferences
- * DeepX may use the list of files/patterns to change client's preferences.
- * DeepX works as Commodity broker, where can be activated or deactivated.
- * DeepX open its own process called 'DeepX Process' with priority 1
- * DeepX keeps unpacked file for a short time for the next possible open
- * DeepX works with interactive devices, like prt: or con:, and nil:
- * DeepX unpacks executables
- * DeepX patches Open(), Close(), Examine(), LoadSeg(), NewLoadSeg(), Write() and OpenFromLock()
- * DeepX was written in assembler

1.7 DeepX Preferences[^]

On the DeepX Preferences' window you will find the following gadgets:

Global Setup Window(ub)

Opens/closes setup window for global (see below).

Tasks Setup Window(ub)

Opens/closes setup window for tasks (processes) (see below).

Files Setup Window(ub)

Opens/closes setup window for files (see below).

Save

Save preferences to ENV: and ENVARC: and exit.

Use

Save preferences to ENV: and exit.

Cancel

Cancel all changes and exit.

Global Setup Window(uu)

Temporary Directory Path

Temporary directory path, where DeepX's temporary files will be kept. If you have enough memory, you should set it to RAM:. After start DeepX will flush temporary files from temporary directory. It avoids keeping temporary files on disk, then temporary directory path is on disk.

Asl

Temporary Directory may be changed using Asl requester.

File TimeOut

Temporary files are kept during a given time, because some programs open the same files few times in a short period fo time. Here you can change the time (in seconds), after which DeepX will delete unused temporary files from temporary directory.

After Start

This cycle gadget changes the state of DeepX activation. In 'Active' mode DeepX is ready after launch. In 'Inactive' mode you must change the DeepX activity in Exchange Commodity to let DeepX work normally.

Executables

When this gadget is set to 'Enable', every packed executable file can be executed like it was unpacked. NOTE: Overlaid executables are not deleted, because they are still in use after return from LoadSeg(). Do not pack overlaid executables!

Tasks Setup Window(uu)

DeepX Clients

This is a list of DeepX clients (processes/command names) with a one special client called <DEFAULT CLIENT>, which have preferences for all programs not shown in this list. If you click on the client's name, then you'll see its preferences, which you can edit.

New

Inserts a new client into the list after the current client. After that you should set its name and you may change the flags or packer.

Delete

Removes the current client from the clients list.

Processes

This is a list of available processes in the system. You can add a process to the clients list by clicking on its name. Do not use devices (DF0, DH0, RAM, CON, etc.) as a clients, because it gives nothing.

Rescan

Because processes may be added to, or removed from system, this gadget updates the list.

Current Client

Here you can edit the client's name, except <DEFAULT CLIENT>. This gadget is active after adding a client to the list. Don't forget to press Return/Enter after editing.

Unpack Files

When this gadget is active, the current client will unpack every opened file.

Pack Files

When this gadget is active, the current client will pack every writen file,

using the Packer and Mode shown below.

Fix File Size

When this gadget is active, the current client will get the correct file size, like the file was unpacked.

Ask Pack

When this gadget and Pack Files are active, before packing a file you will see the requester asking "Are you sure to pack a file?".

Use File List

When this gadget is active, files/patterns from the Files Setup Window are used. When file used by a program matches a file/pattern from the DeepX Files list, then client will use that file/pattern flags. In other case client's flags will be used. Note: that option will not work if client uses `OpenFromLock()`.

Packer and Mode

XPK packer and mode to pack file with, when Pack Files is enabled.

XPK Packer Config

Opens XPK Packer Config window, where you can change packer.

Files Setup Window(uu)

DeepX Clients

This is a list of DeepX files/patterns, which are used when client has 'Use File List' flag active.

New

Inserts a new file/pattern into the list after the current file. After that you should set its name and you may change the flags or packer.

Delete

Removes the current file/pattern from the files list.

Unpack Files

When this gadget is active and client has 'Use File List' flag active, the current file will be unpacked.

Pack Files

When this gadget is active and client has 'Use File List' flag active, the current file will be packed using the Packer and Mode shown below.

Fix File Size

When this gadget is active and client has 'Use File List' flag active, the current file size will look like the file was unpacked.

Ask Pack

When this gadget and Pack Files are active and client has 'Use File List' flag active, before packing a file you will see the requester asking "Are you sure to pack a file?".

Get File From Asl

You may insert a file to the list using Asl requester.

Packer and Mode

XPK packer and mode to pack file with, when Pack Files is enabled.

XPK Packer Config

Opens XPK Packer Config window, where you can change packer.

XPK Packer Config

Packers

The list of available XPK packers. After clicking on a selected packer, you will see its description.

Mode

Changes the packer mode.

OK

Selected packer and mode are copied to actual client/file setup. XPK Config Window will be closed.

Cancel

Packer and mode of the actual client/file setup will not be changed. XPK Config Window will be closed.

1.8 People taking care of DeepX

I want to thank the following people:

Georges "Melkor" Goncalves

for endless support, beta-testing and being the Lord of Hidden Bugs

Paweł "Trevor" Słowik

for believing in me as a good programmer, and roses :-)

Trevor Mensah

for many ideas for DeepX

Grzegorz Całkowski, Andreas Fredriksson

for a little suggestions

and Bruno Rohee, Rich "Lego-Master" Jesse

for being in touch

1.9 history

Version	Date	What was changed
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1.0	19-Jan-96	first release
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1.1	28-Mar-96	no more dos requesters password request on active screen
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ask pack request on active window
flush temporary directory at startup
now files/patterns are supported as clients
rewritten preferences editor
support for locale.library
added patch to OpenFromLock()
