PackX

COLLABORATORS

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

NUMBER	DATE	DESCRIPTION	NAME

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PackX

1.1 PackX Guide Main Menu

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               PackX v1.5 (30-Oct-95)
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               Copyright
                Read it first

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1.2 copyright

PackX is KEYWARE. It means that you pay nothing to the author and you MUST
spread it for FREE (with InfoX, I suppose), except the following case:
if you make software that need a KEYFILE - you SHOULD send it to the author.

Registered version of your program will also be accepted. :-)

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

The author is not responsible for any damage (file lost, disk currupt, mouse
dizziness, fire on motherboard :-)) caused by PackX.

IMPORTANT: PackX was not tested on animals!

1.3 Info about PackX

              * PackX is CLI/Shell utility which allows to pack/unpack or ←
                 encrypt/decrypt
  files using

              XPK
              . Never run it from Workbench!

* PackX was written in assembler, that's why it is small and fast.

* PackX can pack files selected by given pattern and scan directories.

* PackX can move or copy packed files to the given directory.

* PackX can be interrupted by Ctrl-C.

* PackX never writes files that are larger when packed.

* PackX can work with the given task priority.

* PackX doesn't change the protection and comment of packing file. When
  running on V39+, it also saves owner and group ID.

* PackX can add suffix to the packed file and remove suffix from unpacked
  file. When adding or removing suffix, the source file may (or not)
  be deleted.

* PackX can open progress window on the default or specified public screen.
  Progress window is font-sensitive, but if the screen's font is too
  large, PackX will use topaz/8. Packing can be aborted by pressing
  Abort gadget or by pressing either Esc or A.
  Note that progress update rate depends of the packer's chunks size,
  so sometimes you will see only 0% and 100%, but the file will be
  packed.

* PackX returns ERROR if some IO error occurs or not enough memory; returns
  INVALID RESIDENT LIBRARY if a library cannot be opened; returns WARN
  if something went wrong with file or xpk returned error, but file
  processing was not stopped (except user break).

1.4 Requirements

                      PackX needs the following things:

* Kickstart v2.04 (37.175) or newer
* xpkmaster.library v2 or newer (in LIBS: directory)
* some xpk sublibs (in LIBS:Compressors directory)

Read
                XPK
                  documentation how to install XPK package.

1.5 usage

PackX is CLI/Shell utility. Never run it from Workbench!

PackX <file/path> [TO|DEST <path>] [ALL] [LIB|METHOD <lib name>]
  [PWD|PASSWORD <password>] [LOSSY] [SD|STEPDOWN] [NOOW]
  [PRI <priority>] [CS|CHUNKSIZE <size>} [EXT|SUFFIX <suffix>]
  [KEEP] [QUIET] [FORCE] [GUI] [PUBSCR <pubscr>] [DELAY <ticks>]

Template: FILE/M/A,TO=DEST/K,ALL/S,LIB=METHOD/K,PWD=PASSWORD/K,LOSSY/S,
  SD=STEPDOWN/S,NOOW/S,PRI/N,CS=CHUNKSIZE/N,EXT=SUFFIX/N,KEEP/S,
  QUIET/S,FORCE/S,GUI/S,PUBSCR/K,DELAY/N

Where:
FILE - file(s) to pack/unpack/encrypt/decrypt, for example:
  PackX Buster   unpacks file Buster
  PackX DH1:Docs/#?.txt LIB NUKE
    packs all files with .txt suffix in DH1:Docs directory

TO=DEST - a destination path, where to move (or copy if you set KEEP option)
  packed files; if you also set ALL option, all processed files from
  source subdirectiories will be moved/copied, but their directiories
  will not be created

ALL - enable subdirectory scan, for exapmle
  PackX ALL DH1:Docs ALL LIB NUKE
    packs all files and subdirectories in DH1:Docs directory

LIB or METHOD - specifies method to pack file(s) with, for example:
  PackX DF0:More LIB SHRI.75
    packs file More using SHRI method, mode 75

PWD or PASSWORD - specifies password to encrypt/decrypt with, for example:
  PackX Secret LIB ENCO PWD RosesAreRed
    encrypts file Secret using ENCO method
    and password RosesAreRed
  PackX Secret PWD VioletsAreBlue
    deencrypts file Secret
    with password VioletsAreBlue

LOSSY - enables lossy packing (lossy means that file packed with lossy
  packer will not be the same after unpacking as the original. For
  example JPEG is lossy)

SD or STEPDOWN – enable reducing packing efficiency to save mem if necessary

NOOW – no overwrite; do not delete file that already exists while saving
  output, for example:
  PackX Demo LIB RLEN NOOW EXT .xpk
    packs file Demo and saves it as Demo.xpk,
    but if Demo.xpk exists, Demo won't be packed

PRI – set PackX's task priority (-128 to 127), for example:
  PackX WC.doc PRI 3   unpacks file WC.doc with priority 3

CS or CHUNKSIZE – specifies the chunk size; small chunks speeds up packing,
  but reducing pack effeciency. WARNING: very small chunk size is
  dangerous and may cause packed files larger that their originals.

EXT or SUFFIX – specifies a suffix to append to the name of the
  packed/encrypted file, and remove from the name of the
  unpacked/decrypted file, for example:
  PackX S:Start LIB BLZW SUFFIX .xpk
    packs file S:Start and saves it as S:Start.xpk
    file S:Start will be removed
  PackX S:Start.xpk EXT .xpk
    unpacks file S:Start.xpk and saves it as S:Start
    file S:Start.xpk will be removed

  NOTE: Extensions are case sensitive.

KEEP – do not delete original file (works with TO=DEST and/or EXT=SUFFIX),
  for example:
  PackX S:Stop LIB BLZW EXT .xpk KEEP
    packs file S:Stop and saves it as S:Stop.xpk
    file S:Stop will not be removed
  PackX S:Stop.xpk SUFFIX .xpk KEEP
    unpacks file S:Stop.xpk and saves it as S:Stop
    file S:Stop.xpk will not be removed

QUIET – enable quiet mode; no progess display, no error messages

FORCE – enable processing files already packed/encrypted with XPK

GUI – open graphical progress window instead of printing progress text in
  the output; all messages are printed in progress window

PUBSCR – specifies the public screen you want the graphical progress window
  be opened; if the given pubscreen doesn't exists, PackX will use the
  default public screen; this option works only in GUI mode; example:
  PackX Demo.text GUI PUBSCR Workbench
    unpacks file Demo.text and displays progress winodw
    on the Workbench screen

DELAY – gives a delay (in ticks; 1/50 sec) between messages displayed on
  progress window; works only in GUI mode; valid values are 0-255
  (from 0 to about 5 seconds)

1.6 history

```
Version Date    What was changed

 1.0  25-May-95 first release

 1.1  11-Jun-95 removed Enforcer Hit
      new name of temporary file
      added CHUNKSIZE option
      added SD as alias of STEPDOWN
      added SUFFIX option

 1.2   2-Jul-95 fixed problem with locked files
      added NOOW and KEEP options
      splitted 'file (un)packed' message
      changed version string
      now file attributes are not changed
      fixed error with too long suffix
      few optimizations to reduce the code

 1.3  20-Aug-95 little changes in text formatting
      added GUI and PUBSCR
      now QUIET shuts up PackX for good
      added skipping files if no gain
      skip messages changed to 'Error with'

 1.4  06-Oct-95 added DELAY and DEST
      more legal window calculation
      return WARN in some cases

 1.5  30-Oct-95 fixed suffix problems
      and added "couldn't append suffix" message
      now protection and comment are kept in DEST mode
      now files will be packed if KEEP and Delete
        protection flag not set
```

1.7 Bugs Report

PackX may not work correctly. If you found any bugs in PackX or in this
guide please contact the author. The E-Mail address is on the Main page.


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KNOWN PROBELMS:
Packing files with pattern in RAM: causes several file scanning.  That's
because PackX uses dos.library's MatchFirst(), MatchNext(), MatchEnd()
functions, which doesn't work correct with files written to RAM: during
scanning.

For example:  PackX RAM:#? LIB RLEN FORCE causes endless packing
(until you break PackX with CTRL-C).
```


PackX may not work correctly with some file systems (like CrossDOS).

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+oo+
/||\
```

1.8 Hall of Fame

I want to thank the following people:

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```

1.9 About XPK

XPK is a package written by Urban Dominik Mueller
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XPK is availabe on AmiNet sites.
For more information read the documentation for XPK.