

0821b668-0

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1.2 Legal Stuff

Disclaimer

The author cannot be held liable for the suitability or accuracy of this manual and/or the program(s) it describes. Any damage directly or indirectly caused by the use or misuse of this manual and/or the program it describes is the sole responsibility of the user her/him self.

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The following files should come along:

PackDev (23928 bytes)
PackDev.guide (30607 bytes)

1.3 Introduction

With this program you can read or write data directly from/to a disk. The blocks of the disk are read and stored into a file. When reading from a DOS disk, only the blocks that are used are archived. When writing an archive to a disk, only the blocks are written that are stored in the archive. Optionally the data read from a disk can be packed with an xpk packer. The program currently only has a shell interface, but it won't crash if started from workbench.

All this sounds like "Oh no, yet another DMS clone", but this program can handle any

device with a filesystem (e.g. DHx:, DFx:, a RAD: of any size etc.), DMS can only handle floppy disks or devices with the size of floppy disks. Even Non-DOS disks can be handled (but then all blocks are read). Another advantage of PackDev is that it doesn't use stolen code like the authors of DMS do (see below). PackDev supports the xpk packer system, so

it's much more flexible than DMS. You can use any
 xpk
 packer you like,
 i.e. you can use a packer suited to the type of data on the disk. When
 comparing size, you see that PackDev is only 22 KB long. If you pack it
 with PowerPacker, it would be less than 12 KB !

A disk is read as follows:

1. Read
 device
 data from DOS and the disk bootblock
2. Check if the
 filesystem
 of the disk is supported (currently OFS,
 FFS, OFS International, FFS International, OFS Directory Dache and
 FFS Directory Cache are supported)
3. Inhibit
 device
 If the
 filesystem
 is supported and the ALL keyword is not set:
4. Read root block (contains location of block allocation map = BAM)
5. Read BAM and store it (after packing, if specified)
5. Read used blocks and store them (after packing, if specified)
6. Quit

If the
 filesystem
 is not supported or the ALL keyword is set:

4. Read all blocks and store them (after packing, if specified)
5. Quit

Writing functions similarly.

When writing to a
 filesystem
 , DevPack will only allow
 filesystems
 that

are exactly of the same partition size, block size and number of reserved
 blocks. If the disk should be formatted, the track size of the disk (e.g.
 11 blocks for a floppy disk) must currently be equal, too.

1.4 Documentation

Program: PackDev

Template: FROM/O, TO/O, P=PACK/K/O, XB=XPKBUSIZE/K/N/O, M=MEMTYPE/K/O,
 CU=CLRUNUSED/S/O, ETDF=ETDFORMAT/S/O, TDF=TDFORMAT/S/O,
 TDFL=TDFLABEL/S/O, NVF=NOVERIFY/S/O, ALL/S/O, NV=NOVERBOSE/S/O,
 Q=QUIET/S/O, NC=NOCONFIRM/S/O, VIEWFILE/K/O, VIEWFILESYS/K/O,

TESTFILE/K/O,BLOCKLIST/K/O,PASSWORD/K/O,TN=TRUENAME/S/O

Purpose: Reading/writing data directly from/to
filesystems
with
xpk
support.

The following parameters are supported:

FROM, TO

PACK (or P)

MEMTYPE (or M)

CLRUNUSED (or CU)

ETDFORMAT (or ETDF)

TDFORMAT (or TDF)
(CHANGED)

TDFLABEL (or TDFL)
(NEW)

NOVERIFY (or NVF)
(NEW)

ALL

NOVERBOSE (or NV)

QUIET (or Q)

NOCONFIRM (or NC)

VIEWFILE

VIEWFILESYS

TESTFILE

BLOCKLIST

PASSWORD

TRUENAME (or TN)
(NEW)

Examples for usage

1.5 Packers

XPK packers and their efficiency with PackDev

All packers were used with an efficiency of 100. The source disk was the Workbench 3.0 disk from which devs#?, install#? prefs#?, system#? and libs#? were deleted in order to get a slightly fragmented disk that is app. 50% full. the test computers were an A500 with a 030 board (25 MHz) along with the disk in DF0: (a typical usage with an average-speed CPU) and an A4000/060 along with the disk in RAD: (one of the fastest Amigas along with one of the fastest device). The data on disk was 422400 bytes. Only packing was tested.

----- A500/030/DF0: -----						----- A4000/060/RAD: -----			
Vers.	Packer	Time	Size	Bytes/s	Gain/s	Time	Size	Bytes/s	Gain/s
1.98	MASH	44.4	201516	9500	4977	5.0	201520	84800	44353 +
1.2	CBR1	23.2	365012	18200	2473	0.4	365012	1056000	143470
1.0	ACCA	23.8	261604	17750	6761	0.6	261604	728250	277234
36.1	LHLB	80.3	215996	5250	2569	8.1	215996	52100	25481
1.10	SQSH	41.6	229820	10150	4631	3.7	229820	114750	52331
1.0	SMPL	25.5	372960	16550	1937	0.8	372960	555750	65052
2.0	SHRI	84.9	191300	4950	2723	7.6	191304	55400	30327 +
1.2	RLEN	23.9	358232	17600	2680	0.4	358232	960000	145836
3.3	RDCN	23.6	264364	17900	6707	0.5	264360	782200	292666 +
1.0	NUKE	31.1	220136	13550	6499	2.1	220136	201100	96316
1.0	NONE	22.6	436396	18650	-618	0.4	436396	1056000	-34990 #
1.0	IMPL	136.7	214756	3050	1518	17.8	214756	23650	11639
1.0	IDEA	27.4	436520	15350	-514	0.9	436520	449350	-15021 *
0.63	HUFF	27.4	317788	15350	3812	1.2	317788	357950	88654
1.36	HFMM	24.1	315188	17500	4452	0.5	315192	782200	198533 +
1.3	FEAL	35.7	436512	11800	-395	1.7	436512	245550	-8204 *
1.6	FAST	33.5	250536	12600	5136	2.0	250536	215500	87685
1.2	ENCO	23.3	436288	18100	-595	0.4	436288	1056000	-34720 *
0.1	DLTA	23.2	436180	18150	-593	0.4	436180	1056000	-34450 %
0.58	DHUF	23.1	436228	18250	-598	0.4	436228	1056000	-34570 \$
1.0	CBR0	23.5	365012	17900	2437	0.4	365012	1005700	136638
3.0	BLZW	25.1	262112	16800	6375	0.9	262116	459100	174221 +
1.6	RAKE	26.5	212108	15900	7935	1.1	212112	398450	198384 +
1.0	PWPK	65.0	223624	6500	3059	7.0	223628	60150	28315 +

*: These libraries are crypters, they don't pack

#: This is a do-nothing library, it obviously doesn't pack

\$: This library seems to be nonfunctional

+: The archive sizes are different on different systems. I assume that these packers need a minimum input buffer size, and when the disk is completely read and the buffer is not filled with enough data, the packer packs also the remaining space of the buffer which contains random trash. Perhaps someone knows better.

?: This is a packer specialized in sounds

Note that I cannot get the packer libraries xpkCRMS.library and xpkCRM2.library opened (yes, I have the CrM.library), so their specs are missing here.

1.6 Compatibility

This program needs OS V2.0+ to run. If you want to use xpk packers (very likely), you need the xpkmaster.library and some packer sublibraries (I suggest SHRI, MASH, NUKE, RAKE, RDCN or ACCA). The xpk package and some more sublibraries should be present in any good pd mailbox and in the Aminet. They are not included here because it's much larger than the PackDev package.

1.7 Bugs

If the disk should be formatted, the track size of the disk (e.g. 11 blocks for a floppy disk) must currently be equal to the track size of the disk from which the file is read. This is not necessary, but coding the thing this way is easier and faster.

Should you detect a bug, please tell me (email or phone). Be as specific as you can.

1.8 Future

What may be done in the future:

Support of ProfessionalFileSystem and MS-DOS

filesystem

GUI (yes, really, I will do it...tomorrow :-))

Device

that treats an archive like a disk

Built-in packer

What will not be done in the future:

DMS compatibility (see below)

Localization (I hate those zillions of useless files, there is no support for people who cannot speak English. This sounds arrogant, but I think, this tool should not be used by inexperienced users anyway)

Versions for each type of processor (I made the experience that doing this causes a negligible speedup that is not worth even writing this sentence, but perhaps there will be a C compiler that can do better...)

1.9 History

- Aug-14 1994 V1.0 - Initial release, never released I think...
- Aug-18 1994 V1.1 - Minor bugs fixed
- Apr-16 1995 V1.2 - Problems with OFS disks fixed (PackDev didn't know the number of free/used blocks)
- ALL, NOVERBOSE, QUIET and NOCONFIRM keyword added
 - Doc file corrected and improved
 - Filesystem type is now read from block 0 instead of reading it from the DOS node, because the latter always contains DOS\0 for Amiga floppies
 - Minor bugfixes
- Apr-30 1995 V1.3 - If the partition with LIBS: on it is to be handled, PackDev could not open XPK (sub-)libraries, fixed
- Minimum XPK buffer size corrected
 - TESTFILE parameter added
 - Checksums installed, in case an xpk packer doesn't keep them..
 - Argument handling changed (you got me, Christian...)
 - BLOCKLIST parameter added
 - PASSWORD parameter added
- Jul-02 1995 V1.4 - OS 2.0 workaround: Filesystems cannot be inhibited if the DosList is locked. Now it is unlocked before inhibiting (Thanks, Golly).
- Bugfix: DosList was locked with LDF_READ|LDF_DEVICES, but unlocked with LDF_READ|LDF_VOLUMES.
 - Minor docfile editing
- Aug-17 1995 V1.5 - Read/write error output/user interaction was only done if QUIET or NOCONFIRM were set. This must be vice versa, of course (Thanks Dirk)
- Documentation is now in Amigaguide format (Thanks to Edd Dumbill, the author of Heddley, a great Amigaguide editor)
- Sep-03 1995 V1.6 - Added new parameters: TDFLABEL, NOVERIFY, TRUENAME
- TDFORMAT does no longer write label buffers, use TDFLABEL for this in future
 - XPK timing docs revised
 - Guide file improved
 - The guide became longer than the executable :-)

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If possible, use email. If you phone me, please do it from 8pm to 10pm and don't forget that I have Central European Time here, so 8pm for you may not mean 8pm for me !

Everybody who reports a bug via email, receives the next (bugfixed) version directly via email.

1.11 FROM, TO

These parameter specifies the source data and the destination data. The source is specified first and the destination second. Either both or none of these two keywords must be set. If the one parameter is a filesystem the other one must be a file and vice versa. If both parameters are specified along with their keywords, they can be placed anywhere and in any order of the command string. If VIEWFILE, VIEWFILESYS or TESTFILE is set, FROM and TO must not be used.

File names will be handled the following way: When writing to the file, a suffix ".pkd" will be added to the file name if it's not present. When reading from it and the file name doesn't contain the ".pkd" suffix, it's checked first if there is a file <name>.pkd. If this file doesn't exist then the original file name is used. Note that this can be switched off with the TRUENAME parameter.

Note that copy-protected disks (i.e. with a custom track format) cannot be handled.

Examples:

DH0: foobar Read data from DH0: and write it to foobar.pkd foobar
DH0: Read data from foobar.pkd (foobar if not present) and
 write it to DH0:

TO foobar FROM DH0: Read data from DH0: and write it to foobar.pkd, other
 parameters can be placed anywhere between, before or
 after them.

1.12 PACK (or P)

This parameter is optional, but strongly suggested. It may only be specified along with a READ action, because when writing to a disk, the packer type of the archive is automatically recognized. Along with PACK an xpk

packer name and the efficiency can be specified (separated by a ←
".").

Note that some

xpk

packers ignore the efficiency value. A discussion of
packer speed is found in v).

When comparing with DMS, a general rule is : The less full a disk is, the
slower is DMS because DMS always reads all blocks, even if they are not put
into the archive (maybe ParCon is afraid of "lamers" who think, DMS forgets
to read these blocks :-).

Examples:

PACK NUKE (Use NUKE packer with default efficiency)
P SHRI.75 (Use SHRI packer with efficiency 75)

1.13 MEMTYPE (or M)

This parameter is optional. It specifies the memory type that is ←
used for

device

buffers. Some older

devices

may require chip memory for their

buffers. For example, under 1.3 the

trackdisk.device

needed chipmem

because it used the blitter to decode the data (not because the disk DMA
functions with chipmem only). Possible values are CHIP, FAST, ANY. Under
2.0+ trackdisk doesn't need chipmem any longer. Default is ANY.

Examples:

M CHIP (chipmem will be used or program fails)
M FAST (fastmem will be used or program fails)
M ANY (default: highest-priority memory will be used)

1.14 CLRUNUSED (or CU)

This optional parameter is allowed only when writing to a disk. If set,
all unused blocks are overwritten with zeroes. This has the disadvantage
that the write operation becomes slower, but has the advantage that tools
like DiskSalv ((C) by Dave Haynie) don't find old file fragments when
trying to undelete an accidentally deleted file (deleted after usage of
PackDev, of course). This parameter is unset by default.

Example:

CU (PackDev overwrites unused tracks with zeroes)

1.15 ETDFORMAT (or ETDF)

This parameter is optional. It should be set if you want to write to an unformatted floppy disk which is to be accessed by trackdisk.device. It may not function if you write to disks that are accessed by other devices, because this parameter causes PackDev to use a system format routine that functions with floppy disks (DFx:), but may not function with other devices (like scsi devices and especially replacement devices for flppies). The advantage of this format routine is that label buffers can be written with it in one row (Filenotes are NOT stored here, I told this in an earlier version of the doc file... but nobody noticed it/everybody believed it). TDFORMAT will ignore label buffers and TDFLABEL will start an extra run for writing them the label buffers. For experts: This causes PackDev to format with ETD_FORMAT. ETDF is unset by default.

Example

ETDF (enhanced format routine for floppies)

1.16 TDFORMAT (or TDF)

This parameter is optional. It should not be set if you want to write to an unformatted floppy disk with trackdisk.device (i.e. DFx) because these support ETDFORMAT (see above). It will function if you write to a hard disk, RAD:, FFx:, diskspare.device disks etc., because this parameter causes PackDev to use the general format routine that should function with any disk device that is supported by DOS. The drawback of this general system format routine (TD_FORMAT, to be specific) is that it does not write

the
 label buffers
 (don't ask my why, I don't know). If you write an
 archive to disk that has data in its
 label buffers
 and needs them (some
 non-dos disks with trackloaders) then use TDFLABEL (see below). Standard
 disks with a
 filesystem
 (i.e. "dir" etc. works with them) normally don't
 store data within the
 label buffers
 , except there are stupid executables on
 them, but this is not very probable. I don't suggest to use this parameter
 for hard disks, RAD: etc. because their tracks don't need to be
 Amiga-formatted. It is implemented because there may exist some
 devices
 that need formatting but don't support the enhanced routine. TDF ↔
 is unset
 by default.

Example

TDF (standard format routine)

1.17 TDFLABEL (or TDFL)

 With this parameter set the same is done as with TDFORMAT (see ↔
 above), but
 the
 label buffers
 are also written. Because this must be done in an extra
 run, TDFLABEL is twice as slow as TDFORMAT. Use this parameter only if
 label buffers
 need to be written (some trackloader disks may use them) and
 something other than a disk written to by
 trackdisk.device
 (DFx:) is the
 target.

Example

TDFL (standard format routine with extra write run for
 label buffers
)

1.18 NOVERIFY (or NVF)

This parameter switches verifying off when writing to a disk. Use it with RAD:, but all other disks (especially floppies) tend to be unreliable, so disks that are not for one-shot usage should always be verified when written to.

Example

NV (No verify)

1.19 ALL

This parameter can be used when reading from a device
 . If set, PackDev
 reads all blocks from the
 device
 , no matter if the
 filesystem
 is known or
 not. This is useful for all these poor demo disks that have a
 filesystem
 on it, but also raw data on blocks that are not used by the
 filesystem
 . I
 hesitated before implementing this parameter because I HATE disks of this
 kind, but SiliconSurfer insisted on it. Come on boys, stop these lame
 combination of DOS and trackloaders...

Example

ALL (All blocks are read)

1.20 TRUENAME (or TN)

If this parameter is set, the archive file name is used exactly as specified, i.e. no .pkd stuff is done with the filename (see FROM, TO). This parameter can only be set if an action is specified that involves an archive, of course.

Example

TN (Use file name exactly as specified)

1.21 NOVERBOSE (or NV)

NOVERBOSE (or NV) =====

This parameter suppresses the output of the blocks currently worked on. This is useful when the output is redirected to a file. It's disabled by default.

Example

NV (no output of blocks currently worked on)

1.22 QUIET (or Q)

If this parameter is set, nothing is written to the standard output and nothing is read from the standard input. This means that Packdev will always abort if there are any problems (read/write error, ^C pressed, write to existing file etc.) and reports no error text. It's disabled by default.

Example

Q (No input and output)

1.23 NOCONFIRM (or NC)

If this parameter is set, PackDev will never ask for user input, i.e. it will immediately start with the specified action without waiting for confirmation. When errors occur, PackDev will always abort (see also QUIET). The difference between QUIET and NOCONFIRM is that NOCONFIRM doesn't disable output, but QUIET does. This is useful when starting PackDev with a file as standard input or when starting it from another program. It's disabled by default.

Example

NC (No input)

1.24 VIEWFILE

This keyword will make PackDev output a file's filesystem information. It must be specified along with a file name and nothing else.

Example

VIEWFILE foo.bar

1.25 VIEWFILESYS

This keyword will make PackDev output some information about a filesystem. It must be specified along with a filesystem name and nothing else.

Example

```
VIEWFILESYS DH0:
```

1.26 TESTFILE

If PackDev is started with this parameter, along with a file name, the complete archive is read for testing purposes. It must be specified along with a file name and nothing else.

Example

```
TESTFILE foo.bar
```

1.27 BLOCKLIST

If this parameter is set along with a file name, an ASCII block list is generated, one line for each block with the block number in decimal and hexadecimal notation. This parameter cannot be set along with VIEWFILE and VIEWFILESYS.

Example

```
BLOCKLIST foobar
```

1.28 PASSWORD

Setting this parameter allows usage of the XPK packers that are able to crypt the data. It can be used in combination with creating an archive if an xpk packer is used that supports crypting. When extracting or testing a crypted archive you must specify the password or decrypting will fail. Also note that there are countries where crypting data is not allowed or restricted. So if you live e.g. in the Iran, be careful that your head isn't chopped off... ↔

Example

```
PASSWORD YouWillNeverGuessThis
```

1.29 Examples

Reading the disk in DF0: and storing the data into RAM:disk.pkd ←
 , packing
 it with the SHRI algorithm with best efficiency:

```
PackDev DF0: RAM:disk P SHRI.100
```

Reading the disk in DF0: and storing the data into RAM:disk.pkd, packing
 it with the SHRI algorithm with default efficiency:

```
PackDev DF0: RAM:disk P SHRI
```

Crypting DF0: to RAM:Secret.pkd, using the IDEA algorithm:

```
PackDev DF0: RAM:Secret P IDEA.100 PASSWORD StupidPassword
```

Decrypting RAM:Secret.pkd to df1:, a password is assumed to be needed:

```
PackDev RAM:Secret DF0: PASSWORD StupidPassword
```

Writing data from DH0:dhldata.pkd to DH1:

```
PackDev DH0:dhldata DH1:
```

Writing data to an unformatted floppy disk (DF1:), not asking for user
 input, nonstandard parameter order, creating a block list file.

```
PackDev ETDF NI FROM DF1: TO DH0:disk BLOCKLIST ram:disk.blocks
```

Viewing the header of a .pkd file (ram:abc.pkd; not present: ram:abc):

```
PackDev VIEWFILE ram:abc
```

Viewing

```
device  

  information of DH0:
```

```
PackDev VIEWFILESYS DH0:
```

Testing archive integrity of foobar.pkd, an encrypted archive

PackDev TESTFILE foobar PASSWORD YohMan

1.30 Label Buffers

Label buffers are an extra storage space on disks that are ←
accessed with

trackdisk.device

. Each block on such a disk is associated with a label
buffer that can hold 16 bytes. As far as I know label buffers are not
needed to be implemented into other disk

devices

which are to work with

filesystems

(i.e. diskspare, scsi etc.). It seems that it's not necessary
to bother about label buffers when writing to something else than standard
floppies (i.e. with

trackdisk.device

), but special label buffer handling

is supported by PackDev nevertheless.

1.31 Devices, Handlers, Filesystems

What are devices, handlers and filesystems ?

The name "device" has a twofold meaning. First, all hardware drivers
(virtual or not) named xxx.device are called device. They are not
controlled by DOS, but by exec.library, the hard core of the Amiga OS, and
are closest to the actual hardware (there are also resources which are even
closer, but this topic is meaningless here, and so they are treated as
nonexistent in this context). Second, DOS filesystems (e.g. DF0:),
handlers (e.g. PRT:), volumes (i.e. disk names) and assigns (e.g. LIBS:)
are also called devices. Because PackDev only supports (exec-) devices
that can be accessed by a standard set of

trackdisk.device

commands

and that have a filesystem on top of it. Only DOS-devices that represent a
filesystem are needed and these DOS-devices are called filesystems in this
guide.

A filesystem is a link between DOS and block-based devices. It is like a
database that generates a kind of tree with directories as branches and
files as leaves. Most filesystems support links which can be roughly
described as ropes that are tied to a branch and point to a leaf or a
branch elsewhere, even on another tree (i.e. another filesystem). There
currently are 3 basic filesystems for the Amiga: OldFileSystem (FS),
FastFileSystem (FFS) and FastFileSystem with directory caching (DCFS) .
You may have also heard of Internatinal filesystem. This could be

interpreted as a subspecies of the three basic filesystems which support correct upper-/lowercase handling of non-US letters, e.g. Umlauts or accented letters for names of files, directories or links.

Below is a simple representation of how DOS communicates with several types of I/O devices and device-like (in DOS terms) I/O drivers PackDev supports any filesystem that is marked with an asterisk (*). Note that CD0: and RAM: are not supported because they are special cases of devices with a filesystem and they don't communicate with DOS in the way mentioned above.

DOS-device	Handler
--- Filesystem DF0: --- trackdisk.device , unit 0	(*)
--- Filesystem DF1: --- trackdisk.device , unit 1	(*)
--- Filesystem DH0: ---	scsi.device (*)
--- Filesystem RAD: ---	ramdrive.device (*)
--- Filesystem FF0: ---	fmsdisk.device (*)
--- Filesystem RAM: ---	RAM (ram-handler for Kick up to 1.3)
DOS - --- Filesystem CD0: ---	cdrom-handler
	etc.
--- Handler CON: -----	console.device
--- Handler SER: -----	serial.device
--- Handler PAR: -----	parallel.device
--- Handler PRT: -----	printer.device
	(port-handler)
	etc.

1.32 trackdisk.device

This is the standard device for Amiga floppies. It represents the way a track-based device has to behave with a set of basic commands. It is the only device that is guaranteed to support

label buffers
. That means that

filesystems
 don't use
 label-buffers

, they are probably interesting when
considering trackdisk.device.
