

UPXDUMP User Manual

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Chapter 1: Introduction

In tradition of our products released earlier UPXDUMP is a small tool serving only one specific purpose. UPXDUMP is a replacement for the undocumented `--file-info` option in the free, high-performance executable packer UPX.

The main reason to write UPXDUMP was to show a file's compression method in a human-readable manner. A second reason was to practice Pascal programming. Yes, really!

UPXDUMP can also handle malformed executables created by a broken DOS port of UPX 2.93. (`upx --file-info` fails on these.)

UPXDUMP comes in these variants:

1. A small 16-bit version (file `dos16\upxdump.exe`) suitable for DOS computer systems prior to the 80386 microprocessor.
2. For newer DOS systems there is a 32-bit version (file `dos32\upxdump.exe`), that additionally supports long file names.
3. For Windows systems there is a 32-bit console version (file `win32\upxdump.exe`).

Otherwise there is no difference between these variants.

Chapter 2: Licence

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You should have received a copy of the GNU General Public License along with this program; see the file `licence.txt`.

Chapter 3: System requirements

3.1 For the 16-bit DOS version

- Intel 8086/88 microprocessor (or compatibles)
- Microsoft MS-DOS 3.0 (or compatibles)

3.2 For the 32-bit DOS version

- Intel 80386 microprocessor (or compatibles)
- Microsoft MS-DOS 3.0 (or compatibles)
- 32-bit DPMI server (e.g. CWSDPMI)
- optional: LFN API (e.g. DOSLFN) for long file name support

3.3 For the 32-bit Windows console version

- Intel 80386 microprocessor (or compatibles)
- Microsoft Windows 95 (or compatibles)

Chapter 4: Installation

Decompress the archive with, e.g., Info-ZIP UnZip or Windows Explorer to an empty directory.

Chapter 5: Usage

UPXDUMP is a command-line application. It only accepts one option passed to it. This must be either a relative or absolute file name or `/?`, `-?`, `/h`, `-h` to print the very short help screen.

On Windows systems you have to open a console window (`cmd.exe`) to be able to see UPXDUMP's output.

```
UPXDUMP Version DD-MMM-YYYY  
Copyright (C) 1997-201x Robert Riebisch  
[Under GNU General Public License]
```

```
Usage: upxdump <input file>
```

Chapter 6: Sample output

6.1 For the 16-bit DOS version

Running UPXDUMP in directory C:\TEMP\UPX examining file upx.ttp from package upx303a.zip.

```
C:\TEMP\UPX>upxdump atari\upx.ttp
```

```
Analyzing `C:\TEMP\UPX\ATARI\UPX.TTP'...
```

File size:	354320 bytes
Data format version:	13
Executable format:	129 ("atari/tos")
Compression method:	9 ("nrv2e/8")
Compression level:	10
Uncompressed data length:	1415884 bytes
Compressed data length:	353605 bytes
Original file size:	1415888 bytes
Filter:	0/0

6.2 For the 32-bit DOS version

Running UPXDUMP in directory C:\TEMP\UPX examining file upx.exe from package upx303w.zip. Please notice long file name c:\Program Files\UPX\upx.exe.

```
C:\TEMP\UPX>upxdump "c:\program files\upx\upx.exe"
```

```
Analyzing `C:\program files\upx\upx.exe'...
```

File size:	271872 bytes
Data format version:	13
Executable format:	9 ("win32/pe")
Compression method:	14 ("lzma")
Compression level:	10
Uncompressed data length:	1337009 bytes
Compressed data length:	266671 bytes
Original file size:	1297408 bytes
Filter:	38/18

Chapter 7: Technical support

Please visit <http://www.bttr-software.de/> for help or updates.

Chapter 8: Version history

8.1 19-NOV-2017

- added executable formats (UPX_F_VMLINUZ_ARMEL to UPX_F_LINUX_ELF64_ARM and UPX_F_DYLIB_PPC32)
- updated lots of names of executable formats
- added Windows console version
- increased size of read buffer from 16,384 to 65,528 bytes
- made 32RTM signature detection more robust
- added memory check to avoid (theoretical) crashes
- added error exit codes 5 (ERR_FILE_SIZE) and 6 (ERR_NO_MEM) for easier batch processing
- error messages now always contain the word "Error" for easier batch processing
- on checksum mismatch also print the word "Warning"
- options /h and -h are now recognized for the help screen
- rewritten parts of the manual

8.2 19-APR-2009

- first public release

Chapter 9: Trivia

UPXDUMP has been created using:

- Compilers: Turbo Pascal 5.5 to 7.01, Free Pascal 2.2.4,
- File compressors: aPACK 1.00, UPX 3.94,
- Text editor: Notepad2 4.2.25, and
- Documentation production system: Halibut r8112.

Appendix A: aPACK advertisement

This product uses the aPACK executable compressor, Copyright (c) 1997-2012 by Joergen Ibsen, All Rights Reserved. For more information, please visit: <http://www.ibsensoftware.com/>