

Big Tech Propaganda
Wave to ADPCM Converter (c)1993 Daniel Rocha
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What's New?

WAV2ADP and ADP2WAV can now deal with mono 16 bit files. Note that the .WAV file must still be 16 bit (although that could change with a little persuasion.) Also, you can tell WAV2ADP to attenuate the signal by 20%, thus reducing clipping on louder .WAV files.

What does it do?

WAV2ADP.EXE converts any 16 bit, .WAV files to a corresponding .ADP file. The ADP file is approximately 1/4th the original size.

ADP2WAV.EXE reverses the conversion, resulting in a .WAV file with the original sound. For most sound you CANNOT hear any difference, however sounds with very high volumes will clip more noticeably than the original- keep this in mind if you're making .WAV files.

The converter uses a "lossy" method, meaning the resulting file is somewhat different than the original. This works fine for audio, where you normally can't hear any difference. However, this method is completely useless on any other type of file.

Operation Instructions.

Both Wav2ADP and ADP2Wav have identical command line parsers; what works for one works for the other. The parsers are admittedly very primitive.

Wav2ADP filename.wav (output: filename.ADP) [/A = Attenuate by 20%] [/M=force mono]

ADP2Wav filename.wav (output: filename.WAV)

NOTE: wildcards allowed with filenames, but NO paths.

There is no way to change the output filename. BEWARE: Either program will overwrite any file with the same name as the output filename (if it resides in the current directory), with no warning! There are no command line parameters to date. If there is enough interest they can easily be added, contact me if you have suggestions.

Command-Line Parameters

Wav2ADP accepts two command-line parameters: /A and /M. The program is not sensitive to case and there does not need to be a space between the two parameters, although there must be a space between the filename and the command-line parameters.

"/A" attenuates, i.e., lowers the volume, of the input signal by 20%. If you are inputting a particularly loud .WAV file you may notice some distortion; use this parameter to fix the problem.

"/M" converts the input .WAV file to mono to further decrease the file size. Naturally, this cuts it in half. The program averages the left and right signal so you can still hear everything.

How does it do it?

Both programs use a modified Adaptive Delta Pulse Code Modulation (ADPCM) routine which is

very fast and provides very high quality output. For those more technically inclined, ADPCM encodes the differences between samples, rather than the absolute value, into a 4 bit index. The index adapts to the data passing through for maximum accuracy. Note: this is not standard ADPCM- my routines are much faster (no floating points) and more accurate, resulting in better quality.

What are the future prospects for this program?

I would like to add additional algorithms which generate even smaller data files with no noticeable loss of quality. The other algorithms I'm working with will certainly be much slower than ADPCM, but for modem transfers this makes little difference.

If you have any suggestions about this program, please don't hesitate to contact me and let me know.

How to register.

Registration is \$10. My preference would be for free-ware, but considering that there is no other audio compression utility available (that I'm aware of) and that my file-type is unique, I will be compelled to support this program. This being the case I need to know how many people are using the program and what features they would like. \$10 is not going to cause anyone hardship so PLEASE register and let me know what features you would like to see. If you're interested in a site license or to distribute this program, please contact me. All right are reserved.

What does registration get me?

After Registration you are entitled to the latest revision of the software. I prefer to Email this to you, but you can also receive a diskette. There are no nags on the registered version. I will continue to provide you with upgrades until the next major feature revision.

You are also entitled to support after registration. Non-registered users are not entitled to any support. I provide support over CompuServe or the Internet. If necessary I can be reached by phone- please Email me with a time and I will respond with my phone number.

What is Big Tech Propaganda?

Why, that's the name of my company, silly. Big Tech will present additional products oriented around the Windows multimedia environment. If you'd like to participate in some way, particularly if you're a software author or distributor, please contact me.