

Instruction Manual for ADPCMtool

1. Outline

ADPCMtool is a tool to encode/decode wav format file by the method of ADPCM. It can also convert between wav format file and ADPCM file and retrieve PCM format data from wav file.

2. Function

ADPCMtool has three functions as shown below:

Function	Description
Encoding	Encode wav format file to create ADPCM file.
Decoding	Decode ADPCM file to create wav format file
PCM data creation	Create PCM format file from wav format file.

ADPCM, PCM file could be chosen as either binary format or text format.

(1) Encoding Function

Encode PCM data of wav format file (extension .wav) to create ADPCM file (extension .dat or.txt).

Push radio button to select conversion type: PCM/ADPCM file format (Refer to figure 1), and then push [Go] button to select file.

(2) Decoding Function

Decode ADPCM file (extension .dat or .txt) to create wav format file (extension .wav). Push radio button to select conversion type: PCM/ADPCM file format (Refer to figure 2), and then push [Go] button to select file.

A sampling rate is needed to be indicated.

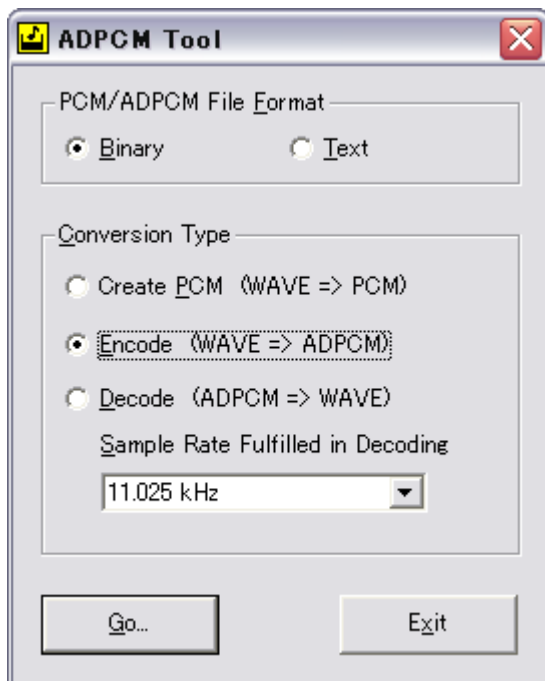


Figure 1 A setup sample of data encoding
(Output ADPCM : Binary format)

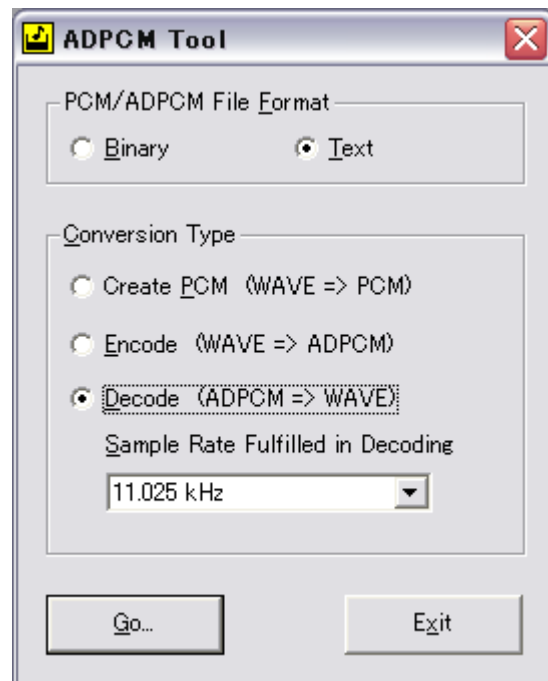


Figure 2 A setup sample of data decoding (Input
ADPCM : Text format)
(Sampling Rate : 11.025KHz)

(3) PCM Data Creation Function

Retrieve PCM data from wav format file (extension .wav) to create PCM format file (extension .dat or .txt). Push radio button to select conversion type: PCM/ADPCM file format (Refer to figure 3), and then push [Go] button to select file.

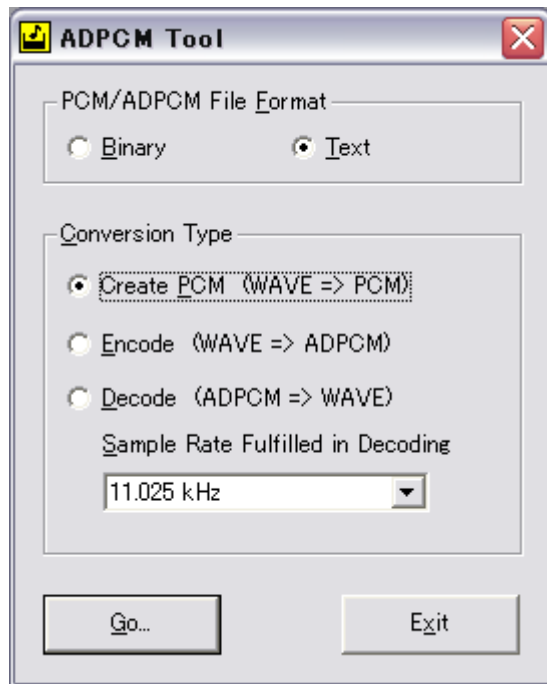


Figure 3 A setup sample of PCM data creation
(Output PCM : Text format)

3. File Format

(1) Extension

Default extensions used in files are shown below:

File	Extension
PCM/ADPCM (Text)	.txt
PCM/ADPCM (Binary)	.dat
Wav Format	.wav

(2) The Text format of ADPCM, PCM file

In text format, byte value is expressed in HEX constant of C language with 8 data in a line.

■ Samples of text format

```
0x01,0x02,0x03,0x04,0x05,0x06,0x07,0x08,
0x01,0x02,0x03,0x04,0x05,0x06,0x07,0x08,
...
```