$Using \ \mathtt{miditext}$ The MIDI-to-textmidi translator

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1 Overview

The miditext program translates a binary standard MIDI file into a text file in textmidi language. A file in textmidi language can be edited and processed with text tools and macro processors such as m4. Textmidi files can then be re-translated into MIDI using textmidi. The goal of miditext and textmidi together is to permit the specification of any musical events that are permitted by the MIDI 1.1 spec's chapter on Standard MIDI Files. SysEx (system exclusive) is also supported, as are all three filetypes (single track, multitrack and multi-sequence).

The textmidi language is described in the info page for textmidi.

No attempt is made in textmidi to support either MIDI show control or machine control.

1.1 What is miditext?

The program miditext reads a standard MIDI file and converts it to a text file, which is in the textmidi language. Each item in the text file corresponds to an item in the binary MIDI file, more or less.

miditext does not record or play over a MIDI interface.

1.2 History

miditext was developed in 2003 and improved in 2020 and 2021 in order to add support for more of the MIDI specification.

2 Invoking miditext

2.1 Options

```
\label{eq:miditext} \begin{array}{ll} \mbox{miditext } [-i|--midi] \mbox{ $midi\_input\_file } -o|--textmidi \mbox{ $textmidi\_output\_file } \\ [-a|--answer] \mbox{ $[-q|--quantize $musical\_ratio $in $quotes$] $[-l|--lazy] $[-h|--help] $[-V|--version] $[-v|--verbose]$ \\ \end{array}
```

-h, --help

Print the options summary.

-v, --verbose

Write some informative messages to the screen. Errors are printed regardless.

-V, --version

Print the version of miditext.

-i, --midi midi_input_file

The input file: a MIDI file.

-o, --textmidi textmidi_output_file

The output file, in textmidi text language.

-q, --quantize num

A musical rhythm ratio (in quotes to satisfy most command shells) to use as the common divisor of all rhythmic durations. For example "1/16" would force all durations to be divisible by a sixteenth-note.

-1, --lazy

Will attempt to output track data in textmidi's LAZY mode, an abbreviated text representation.

-a, --answer

If the output textmidi file already exists, ask before overwriting it.

2.2 Invocation Examples

The following command will read the MIDI file prelude.mid and convert it to the text-based textmidi language.

```
miditext --midi prelude.mid --textmidi prelude.txt
```

The following converts prelude.mid into prelude.txt, and attempt to write using the abbreviated LAZY mode representation.

```
miditext --midi prelude.mid --textmidi prelude.txt --lazy
```

The following converts prelude.mid into prelude.txt, and coerces rhythms to be divisible by a thirty-second note. If the file prelude.txt exists, the user will be asked whether to overwrite it.

```
miditext --midi prelude.mid --textmidi prelude.txt --quantize "1/32" --answer
```

3 Installation

This program was prepared for builds using GNU autoconf tools. Unpack the archive. Move to the directory created for the program. Run the configure script and run make.

```
./configure
make

Make yourself superuser (root), or use sudo to run install targets:
make install
make install-info
```

4 Known Bugs

Although the DETAIL mode representation should be accurate, if --lazy is selected, and if a track in the MIDI file has overlapping note events with asynchronous start and stop times, the LAZY mode representation may not be accurate.

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6 Bibliography

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