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1 Overview

In previous epochs of the personal computer era, a variety of media formats were in use; this was certainly true of music files. Even as MIDI standard file format appeared, formats such as Simple Musical Score (SMUS) were available. Today, editors and players for SMUS files are largely defunct. As a result, a number of old SMUS score files exist and may require translation to MIDI for use.

The smustextmidi program translates an SMUS (IFF Simple Musical Score) music file into a text file in textmidi language, using the LAZY dialect. Using smustextmidi, it is possible to decode SMUS files into text files, which can be edited in text editors, enriched using a macro processor such as m4, and processed using text tools.

textmidi can be used to translate the textmidi file into a standard MIDI binary file.

Some items in SMUS files (such as the SMUS clef event) have no counterpart in MIDI standard files and are rendered as comments.

SMUS (IFF Simple Musical Score) file format was developed and published by Electronic Arts. smustextmidi was based on smusmidi for the Commodore Amiga. smusmidi was written to convert the SMUS files produced as a special save from Electronic Arts' Deluxe Music Contruction Set, and smustextmidi also translates such files. If a file has an outter wrapper before the FORM chunk ID, smustextmidi will not be able to translate it.

The reason that smustextmidi translates SMUS files into textmidi's LAZY dialect is that SMUS files encode notes as a pitch with a conventional (ratio) musical duration, and not in arbitrary numbers of delay ticks between events as in MIDI. Translation into LAZY mode using the conventional musical rhythms available in SMUS may make it easier to either edit the textmidi text file, or to compare it to the original as a score.

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

1.1 What is smustextmidi?

The program smustextmidi reads an SMUS file and converts it to a text file, which is in the textmidi language. smustextmidi does not record or play over a MIDI interface. SMUS and MIDI files encode musical events in terms of notes to be played, and not the audio signal of a musical performance. This encoding makes SMUS and MIDI files very compact, perhaps around 500 bytes per second, compared to a possible 20- or 30- thousand bytes per second for a compressed audio file.

1.2 History

The original version of this program, smusmidi, was written for the Commodore (TM) Amiga (TM) (big-endian) personal computer no later than 1991 and released as open-source. It was used at first to convert SMUS files that had been produced by Electronic Arts' Deluxe Music Construction Set. smusmidi was ported in 2003 to run on an little-endian x86 PC and modestly improved in order to assist a music professor with some early baroque music which he had in SMUS format.

2 Invoking smustextmidi

2.1 Options

-h, --help

Print the options summary.

-v, --verbose

Verbose does not currently add any print-outs.

-V, --version

Print the version of smustextmidi.

-i, --smus smus_input_file

The input file: an SMUS file.

-a, --answer

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

-o, --textmidi textmidi_output_file

The output file, in textmidi text language, using LAZY dialect.

2.2 Invocation Examples

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

```
smustextmidi --smus prelude.smus --textmidi prelude.txt
```

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
```

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