AC97Mixer

Frank Fenn

COLLABORATORS

	TITLE : AC97Mixer		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY	Frank Fenn	August 24, 2022	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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AC97Mixer

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                -2002
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1.2   Introduction

AC97 Mixer 2.1   01-Sep-2002

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      Excited about the new Amithlon Amiga emulator I had to write this
      program to use more of the Audio features of PC soundcards.

      Requirements:
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   Kickstart/WB   : Amithlon with OS 3.1/3.5
   Other software : MUI
   Other hardware : ES1371/CT5880 or VIA VT82C686 or EMU10K based
                    soundcard or Maestro2/3
```

Note:

   Since I don't have onboard sound or any other soundcard, please
   report all errors regarding VIA or SB Live immediately. I'll
   provide a debug version as soon as possible.

Next supported card:

   Will see which AHI drivers come next.

1.3 Installation

AC97 Mixer 2.1   01-Sep-2002

   The installation is very simple. I think, that I don't need the
   Installer for these files. The AC97Mixer program should be copied
   into the WBStartup directory which is the best place for it.

   The program opens a MUI application window with all the sliders
   which control the SB 128 PCI volume and balance settings.

   Tooltypes ---

      CX_POPUP   : If "YES" then the GUI appears at startup time.

      SAVEONEXIT : If "YES" the mixer settings are written to
                   ENVARC:ac97.prefs

      NOCONTEXT : Disables the context menu with this tooltype.

      DEBUG   : Writes debug messages to trap bugs

1.4 Usage

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Balance --

These sliders control the balance of the selected channel. This
function is not working correctly if you move the slider too fast

Mixer --

These sliders control all the output levels for Master, CD, AUX,
PCM, LINE IN, MIC, CENTER, and SURROUND (if supported).

You can hide/show each mixer by using the right mouse button
within the mixer window. These settings will be saved if the
SAVE_EXIT tooltype is set to YES.

Mute ---

If the checkmark gadget is checked the channel will be muted. The
original volume values are preserved.

20dB ---

If the checkmark gadget enables the microphone pre-amplifier.

3D ---

Some codecs support some form of 3D stereo enhancement. With the
center and depth slider you can manipulate these values. This
works not always as expected. On my SB 128 PCI the center slider
shows no effect.

AREXX

An Arexx port has been activated in version 1.7. The Port to use
is SBMIX.1 The Arexx interface only controls the first sound card
in the list. There are 4 commands implemented so far:

CARD ---

CARD index

  Activates one of the detected sound cards. The index value is
  same as the radio button number starting with '0'.

MUTE ---

MUTE channel TRUE|FALSE

  Mute or unmute a channel. Channel can be set to MASTER, CD, AUX,
  PCM, MIC, or LINE.

```
GETVOL

GETVOL channel

  Gets the  volume and  mute status  for a channel. Channel can be
  set to MASTER, CD, AUX, PCM, MIC, or LINE.

  The result string shows the channel volume and TRUE or FALSE for
  the status of the mute gadget.


SETVOL

SETVOL channel value

  Sets the volume for a channel. Channel can be set to MASTER, CD,
  AUX, PCM, MIC, or LINE.

  The  value for volume  ranges from 0 TO 31,  where 31 means full
  volume and 0 silence.
```

1.5 History and Future of ToccataMixer

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AC97 Mixer 2.1                                               01-Sep-2002




   (A)dded (R)emoved (F)ixed (I)nfo

   V 1.0....... 01-Jan-2002  initial release

   V 1.1....... 03-Jan-2002  (A) .... 3D stereo enhancement support

   V 1.2....... 07-Jan-2002  (A) .... LINE IN and MIC
                             (F) .... master resolution can be $3F
                             (F) .... volume changes if balance is not 0

   V 1.3....... 09-Jan-2002  (F) .... codec now gets initialized
                             (A) .... mixer settings are saved and restored

   V 1.4....... 19-Jan-2002  (F) .... additional init for ES1370 and ES1371

   V 1.5....... 27-Jan-2002  (A) .... MIC preamp + 20dB
                             (I) .... 3D sliders are only shown if CODEC has
                                      3D enhancement capabilities

   V 1.6....... 01-Mar-2002  (A) .... context menu to hide/show selected sliders

   V 1.61...... 02-Mar-2002  (F) .... bugfixes

   V 1.7....... 28-Apr-2002  (A) .... ARexx commands MUTE and SETVOL
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    V 1.71...... 30-Apr-2002  (F) .... mastervolume didn't work correctly with
                                       codecs that have 6 bit volume resolution

    V 1.72...... 01-May-2002  (F) .... debug messages removed

    V 1.8....... 05-May-2002  (A) .... surround and center volume

    V 1.81......    May-2002  internal version

    V 1.82...... 20-May-2002  (A) .... ARexx command GETVOL
                              (F) .... closing the window now iconifies
                              (F) .... about window shows version

    V 1.83...... 30-May-2002  (F) .... mute via ARexx set full master volume

    V 1.9....... 16-Jun-2002  (A) .... VIA support

    V 1.91...... 26-Jun-2002  (F) .... multiple balance changes mute sound

    V 2.0....... 29-Jun-2002  (A) .... EMU10K support (SB live)

                06-Jul-2002  (A) .... EMU10K support (Audigy)

    V 2.1....... 01-Sep-2002  (A) .... ESS1968 support (Maestro)


    Future ------------------------------------------------------

    * locale support
    * more cards, more features


    Known bugs --------------------------------------------------

    * mixer/MUI prefs crashes at start with faulty MUI installations
```

1.6 author

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    This little program is giftware. If you like it, surprise me. I
    like good SF books, techno music and some extra $$$:) People
    with low budget can send me a picture postcard.

    You are allowed to copy AC97 Mixer as long as you do not charge
    more than the price for the medium (and maybe a small copying
    fee).

    You are allowed to put it on a collection of Public Domain/

Freeware/ Shareware programs, if you send me a free copy of it.
(If you put it on a cover disk of a disk magazine, then please
send me the corresponding issue of this magazine, too.)

Use it at your own risk ! I can give you no warranty. I am no
responsible for anything that happens, especially if it is
something bad. :-)

If you found any bugs or have important suggestions or
improvements, send all to:

eMail   : fenn@nucleus.com

SnailMail: Frank Fenn
           1156 Ranchlands Blvd, NW
           Calgary, AB T3G 1G5
           Canada

Phone   : +1-403-208-7105 (6:30pm - 8:30pm MST)

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