

MCI MIXER DOCUMENTATION

Version 1.4

(c)1991,1992 Media Vision

INTRODUCTION

With the MCI MIXER driver and its support library, MMMIXER.DLL, you can add mixer control functionality to your multimedia applications!

If you are a presentation designer using a tool that allows you to send MCI strings, you now have new volume control commands at your disposal. If have any comments about the MCI mixer driver please contact Media Vision's Ken Nicholson at (510) 770-8600.

DISTRIBUTION

Media Vision is offering the virtual mixer interface to MPC developers license free in the hopes of a standard mixer interface being developed. We encourage developers to ship the following files with their products license free:

```
MCIMIXER.DRV
MMMIXER.DLL
MVMIXER.DRV
```

If you are shipping these files, please let us know. We may wish to assist you in promoting your product!

INSTALLATION

The mcimixer.drv file should be in your \windows\system directory.

```
[mci]
mixer=mcivmixer.drv
```

The driver entry in your system.ini file should be:

```
[drivers]
mixer=mvmixer.drv
```

Command Set

```
reset      <device>

mute       [status]

set        <device> <linetype> <linespec> <control> [channel] [to]
           <value>
```

```

_set      <device> <linetype> <linespec> <control> [channel] [to]
          <value>

get       <device> <linetype> <linespec> <control> [channel]

adjust   <device> <linetype> <linespec> <control> [channel] [to]
<value>

connect  <device> <linetype> <linespec> [to] <linetype> <linespec>

disconnect <device> <linetype> <linespec> [from] <linetype> <linespec>

fade     <device> < [state <filename>] |
          [<linetype> <linespec> <control> [channel]
          [to] <value>]
          > [delay] [duration]

```

KEYWORD DESCRIPTIONS:

=====

the <device> parameter must be either a valid mci device name or a valid alias

the <linetype> parameter must be one of the following key words:

```

LINE_IN
LINE_OUT
DEVICE_IN
DEVICE_OUT

```

the <linespec> parameter is dependent upon the <linetype parameter>. For "line_in" and "line_out", <linespec> must be a number between 1 and the number of lines (input or output)

supported

by the mixer.

For "device_in" and "device_out", <linespec> must be a one of the standard 3-letter names for device types:

name: Description:

```

-----
N/C      No Connection
AAT      Analog Audio Tape
AMP      Amplifier
AUX      Auxillary
CDA      Compact Disk Player
DAT      Digital Audio Tape
EQU      Equalizer
LPA      Phonograph
MIC      Microphone
MIX      Mixer
MUS      Musical Instrument
RAD      Radio
SPK      PC speaker
TEL      Telephone

```


included as a sample application with the Microsoft Multimedia Development Kit (MDK), provides an easy way to try out some of these commands.

You should precede each of the commands by the following line:
open mixer alias mix

When you are finished sending commands, send this line:
close mix

To reset the mixer to the startup settings as specified in WIN.INI:

```
reset mix
```

To mute all mixers

```
mute mix
```

To instantly change the volume of a specific mixer input line to 75%:

```
_set mix line_in 3 control volume to 75
```

which is the same as:

```
_set mix line_in 3 control volume 75  
_set mix line_in 3 to 75  
_set mix line_in 3 75
```

To instantly change the volume of a CD-ROM device on an unknown mixer input line to 75%:

```
_set mix device_in CDA control volume to 75
```

which is the same as:

```
_set mix device_in CDA control volume 75  
_set mix device_in CDA to 75  
_set mix device_in CDA 75
```

To find out the current volume of a CD-ROM device on an unknown mixer input line to 75%:

```
get mix device_in CDA control volume
```

which is the same as:

```
_set mix device_in CDA  
_set mix device_in CDA 75
```

To find out the current bass EQ setting of the AMPLIFIER output line:

```
get mix device_out AMP control bass
```

To instantly reduce the setting of the AUX input volume to 10% less than the current setting:

```
adjust mix device_in AUX control volume -10
```

To instantly connect both the microphone and the CD audio inputs to the output which goes to the record circuitry:

```
connect mix device_in MIC to device_out WAV  
connect mix device_in CDA to device_out WAV
```

To instantly disconnect the microphone input from the record circuitry:

```
disconnect mix device_in MIC from device_out WAV
```

To instantly change the state of the mixer to a state that was previously saved to disk:

```
fade mix state c:\windows\saved.mix
```

To gradually fade out the volume of the Adlib-compatible FM synthesizer input over 30 seconds:

```
fade mix device_in MUS to 0 duration 300
```

To wait 10 seconds then gradually fade the master volume to 50% over the course of 5 seconds:

```
fade mix device_out AMP to 50 delay 100 duration 50
```

Note: It is not necessary to fade a volume gradually over .1 seconds to avoid noise. All mixer volume changes are implemented by changing the volumes a step at a time to reach the desired

setting.