

SampleE

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Chapter 1

SampleE

1.1 SampleE Dokumentation - contents

SampleE V2.90 15.04.1998

A Sample-Editor written in Amiga-E
Copyright © 1998 by Rainer Müller
All rights reserved

Introduction
Requirements
Installation

Usage

Configuration

Bugs
Internals
History
Future Plans

Acknowledgements
Disclaimer
Copyright

Author

1.2 SampleE - Introduction

Introduction

SampleE is a sampleeditor, which most of the standard funktions like e.g. copy and insert cuttings, echo-effekt.

Samples are edited with 16 bit resolution and in mono/stereo, this means of course more quality.

Depending on the graphic-mode the maximum replay rate may be up to 57.6 kHz. The playback is done using the amiga-soundchip in 8 bit. SampleE supports AHI. So it is possible to replay sounds with a soundcard. Depending on the soundcard samples are played with up to 16 bit and 48 kHz. For details read the documentation of AHI !

For loading and saveing SampleE supports in the moment the 8SVX and WAVE format. With the multiio-function SampleE should be able to load a lot of other formats.

1.3 SampleE - Requirements

Requirements

In order to use SampleE, you need an Amiga with 512 KByte and at least Kickstart 3.0. But with 512 KB you only can edit very short samples. Fast-Memory is highly recommended. If only Chip-Memory is available, the maximum replay-rate may be limited to quite small values.

AHI is recommended even without soundcard, because the AHI paula-driver allows output with 14 bit !

1.4 Sample - Installation

Installation

The best and easysiet way is to the installation-script.

1.5 SampleE - Bugs

Bugs

I don't know any bugs, except the ones I found out myself. But it is possible, that there are bugs in the program, I haven't found yet.

If an error occurs, please tell me, in order to remove it. Please describe the circumstances when the error occured. If there is a GURU, then tell me the number.

You find a bug-list in History.

My adress Autor

On my computer SampleE didn't cause Enforcer Hits !

1.6 SampleE - Internals

Internals

The programm is written 100% in Amiga-E.
(Amiga-E Copyright © Wouter van Oortmerssen)

The maximum samplelength is only limited by the available memory. Samples may be loaded into fast-memory. Fast-memory is highly recommended.

SampleE edits samples with 16 bit. The Amiga audio-hardware works with only 8 bit. That means that while replaying, the data has to be reduced to 8 bit. This is time intensive, so fast memory is a good thing. Even better is. if AHI is used. AHI works faster and supports soundcards.

With OCS (Old Chip Set) the maximum play-rate was 28800 Hz. Starting with ECS (Enhanced Chip Set) and AGA (Advanced Graphics Architecture), maximum play-rate is 57600 Hz.

Maximum rate depends on the graphic-mode, that means from its scanrates. But these rates are not "clear", because they change if you use "VGAonly" or the monitor-files were modified, so it is difficult to say, what the maximum rate is.

You can find more information under: Recommended Screen-Modes

The values given there are a compromise of the "normal" values and the values with active "VGAonly".

With AHI this is handled a bit different.

1.7 SampleE - History

History

History starting with Version 2.0

- * V2.0
 - new: - colours of the screen can be modified
 - font can be freely selected, except proportional-fonts
 - new GUI and completely font-sensitiv !!
 - loading samples into FAST-Memory
 - Save-Formats-Window
 - Multi-Loadfunction for unknown sample-formate
 - sample-scrollbalken in sample-window
 - shift-function
 - unmix 2 Samples was removed
 - * V2.02 , V2.03 , 2.04 , 2.05 - Bug-Fixes, some little improvements
 - with OS3.0 texts of the "Text_Kind-Gadgets" weren't displayed
 - after start from Workbench the filerequester shows the current directory.
 - if there were an error during startup, SampleE caused an GURU
 - some windows are "zoomable"
-

- * V2.21 7.3.1997 123452 Bytes -> Aminet
NEW
 - progressbar
 - no limit of the number of samples (only limited by the available memory)
 - sample-selection in a ListView-Window
 - add, that means create a new sample
 - rename sample
 - new "copy sample" function
 - a lot of internal changes (newwritten datastructures, new structure of the sourcecode, cleaned up the code)
 - now most of the windows are "zoomable"

 - * V2.3 25.5.1997 138348 Bytes
NEW
 - now the Sample-Scroll-Gadget is integrated in the windowborder -> the window need less space, graphical display is a bit faster
 - most gadget got a bit smaller -> the windows need less space
 - in the configurationwindow the current displaymode and font is displayed
 - load last saved configuration
 - the play-rate can be adjusted with a scroll-gadget in the bottom border of the Info-Window
 - Multi-Loadfunction: you can skip the first x Bytes (e.g. if you know the size of the file-header)
 - SampleE was completely localised

 - * V2.71 20.10.1997 157060 Bytes -> Aminet
NEW
 - samples are edited with 16 bit
 - external configuration-editor -> the structure of the mainprogram got less complex and now it is more stable against errors
 - Audio-Window -> "main" and info window are a bit smaller
 - bigger gadgets -> more space for translations into other languages
 - SampleE opens its windows on the WorkBench Screen if you want
 - new "message-handling" procedures -> smaller, faster
 - while playing a sample, a window appears with a "stop"-gadget to stop replaying
 - installationsscript
 - new written audio-replay routine; BTW: starting with the first version of SampleE, there was a bug in the replay routine. Samples, which were placed in Chip-Memory, weren't played completely.
 - new written volume-functions -> more exact, more quality
 - new written frequency-function -> more exact, more quality
 - multiformat-savefunction

 - * V2.90 15.04.1998 192308 Bytes -> Aminet
NEW
 - now support for editing in stereo
 - AHI support
 - overworked the GUI a little bit
 - overworked the documentation a little bit
 - read and write fibonacci-delta packed 8SVX-files
-

BUGFIX

- MCP NewGadTools Patch and SampleE didn't like each other -> fixed
- removed several bugs

1.8 SampleE - Future Plans

Future Plans

- hd-editing
- XPK-support
- Clipboard-support
- "Paint"-funktion
- famples 'loopen'
- contextsensitive online-hilfe (how do I connect a program with Amiga Guide ???)
- save several marked areas
- datatypes ?? (how do I use datatypes ???)
- Arexx ??? (how can I built a port into a program ???)
- ...
- ...

I am thankful suggestions.

I am also thankful for documentations/informations about other sampleformaten like z.B. VOC, HSN, AIFF, (8SVX, WAVE)... and I will try to write load- and save-functions (some demo-samples for checking would be a good idea)

1.9 SampleE - Acknowledgements

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I want to thank following people

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Nico Francois and
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for the help writing the installtion-script

E. Lensink - for the programm 'The Guru'

Daniel Rädcl - for the programm WatchMem

Commodore & Amiga Technologies - for the greatest of all computers

all people who developed the Amiga and
the ones who develop a PowerPC-successor, which is worthy to the Amiga

Georges Goncalves - for the motivation to keep on developing and
for the french translation

1.10 SampleE - Disclaimer

Disclaimer

SampleE, except the ReqTools.library, was completely written and copyright by Rainer Müller. SampleE is FREeware. The ReqTools.library was written by Nico Francois and Magnus Holmgren.

The files belonging to SampleE are not to be modified, complemented, shorted, etc..
The files may be archived.

The author is not responsible for any damage or loss of data, which might be caused by the usage of this program.

1.11 SampleE - Copyright

Copyright

SampleE may be copied freely as long as its files are copied in their original condition. SampleE is FREeware.

!! COMMERCIAL USAGE and COMMERCIAL DISTRIBUTION is not allowed !!

It is not allowed to distribute the program on disks, which are sold for more than five (5) Deutsch Marks or equivalent in another currency.

1.12 SampleE - Author

Author

SampleE was developed and written by Rainer Müller

My Address:

Rainer Müller
Lichtenbergstraße 21
88677 Markdorf
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E-Mail: Rainer.m.Mueller@uni-konstanz.de

The computer:

Amiga 1200, 68030 50 MHz, 16 MB-Fast, 2 MB-Chip, 850 MB-HD, OS3.1 (Kick 40.68, ↵
WB 40.42)

The language:

Amiga-E © Wouter van Oortmerssen

Please note that english is not my native language.

So, if there are any mistakes (ok, there are many mistakes), tell me what
is wrong and what would be right.

1.13 SampleE - Usage

Usage

The Window Manager

information

sample

stereo

audio

edit

volume

shift

mix

echo

frequency

project

about

use

save

With the window-manager you can open all the other windows. A double-klick
on the name of the wanted window opens the window. Is the window already
open it is moved to the front. If the window is only a titelbar, it gets
maximum size.

The close-gadget of the window quits SampleE. Before that, there will be a
security request.

PS. I am not good in writing documentations, but I hope that everything is
more or less easy to understand. If necessary, the good old "do by try"
method will help, to understand the functions and the parameters.

Have fun with SampleE !!

1.14 save settings

save setting

The configuration is saved to ENVARC:SampleE.prefs.

1.15 use settings

use settings

The configuration is saved to ENV:SampleE.prefs -> after a reset the configuration is lost.

1.16 edit window

edit window

zoom mark	buffer	edit	
in	all	sample to	cut
out	view	to sample	copy
mark		clear	paste
all	unmark	M	del
reverse	inverse		clear

1.17 zoom

zoom

- ' in ' shows a smaller part of the sample
- ' out ' shows a bigger part of the sample
- ' range ' shows the marked range
- ' all ' shows the whole sample

1.18 mark

mark

- ' all ' the whole sample is marked
- ' view ' the visible part of the sample is marked
- ' unmark ' the marking is deleted

1.19 copy-buffer functions

copy-buffer functions

- 'sample to' the sample will be copied into the copy-buffer
- 'to sample' the copy-buffer will be copied to the sample
- 'clear' the copy-buffer will be deleted

1.20 buffer mono/stereo ?

buffer mono/stereo ?

A 'M' means, that the copy-buffer contains mono data.

A 'S' means, you're right, that the copy-buffer contains stereo data.

1.21 edit

edit

- 'cut' the marked range will be copied into the copy-buffer and deleted from the sample
- 'copy' the marked range will be copied into the copy-buffer
- 'paste' the contents of the copy-buffer will be inserted at the beginning of the marking
- 'del' the marked range will be deleted from the sample
- 'clear' the marked range will be set to the value 0

1.22 reverse

reverse

The marked range will be reversed.

1.23 inverse

inverse

The sample will be turned upside down.

1.24 info window

info window

```
range      start  end    length start  end    length
visible    >
12345
```

```

>
12345
>
12345 12345
12345
12345
marked >
12345
>
12345
>
12345 12345
12345
12345
sample M
C
>
12345 12345

```

1.25 type of memory

type of memory

Here is the type of memory display, in which the sample is placed.

C = Chip
F = Fast

1.26 Sample Mono/Stereo ?

Sample Mono/Stereo ?

A 'M' means, that the sample is mono.
A 'S' means, that the sample is stereo.

1.27 ranges - change startpoint/endpoint/length

ranges - change startpoint/endpoint/length

Here you can enter the startpoint/endpoint/length of the visible/marked range, change length of the sample (in frames).

Replay-rate means the rate with which the hardware replays the sample.

1.28 ranges - startpoint/endpoint/length/Länge

ranges - startpoint/endpoint/length in bytes/ in 1/100 seconds

Here is the startpoint/endpoint/length of the visible/marked range, the length of the sample displayed.

In the first three read-only-gadgets, the values are in frames, in the last three the values are in 1/100 seconds.

1.29 sample window

sample window

In the sample window, the sample (or a part of it) is displayed graphically.

With the zoom functions in the main menu you can make the visible bigger/smaller. With the scroll-gadget at the bottom of the sample window, you can scroll the visible part of the sample. The sample is displayed "even", that means every 2., 3., ... byte and not every 2,1. 3,6. byte is displayed -> it may happen, that in the right half of the window is empty.

The size of the sample window is variable. The width can be adjusted at all. If you adjust the window to an innerheight of e.g. 180 pixel, the program makes the window smaller, so that the window has an innerheight of 128 pixels. If you adjust the window to an innerheight of 127 pixel, the window will be sized to 64 pixels.

Mark a range:

Press the left mouse button in the interior of the window and keep the button pressed and mark the range from left to right, by moving the mouse. The marked range is made visible by inverted display of the sample. The information about position and size are displayed in the Info Fenster. You can change the marked range with the mark functions in the main menu.

1.30 project window

project window

```

+-----+-----+-----+-----+
|               | | | |
|               | | | |
|               | | | |
|               |  |
|               | <> |
+-----+-----+-----+-----+
    add
    copy
    delete
    load
    save
    new name

```


1.31 add sample

add sample

At first a text-requester appears. There you type in the name of the new sample. Then there is a second requester. There you type in the length of the new sample and select whether the sample should be mono or stereo.

1.32 copy sample

copy sample

The sample is copied. It gets the name Copy_of_xxx

1.33 delete sample

delete sample

After a security request, the sample will be deleted.

1.34 new name

new name

A requester, where you type in the new name, appears.

1.35 Load

Load

A file-requester appears. There you select the sample to be loaded. If the sample is not a IFF-8SVX or WAVE file, there will be following window.

unknown format

load-options

mono	8 Bit
stereo	16 Bit
signed	Motorola
unsigned	Intel
skip	1234
Load	cancel

With this parameters it should be possible, to load every unknown sound-file.

Notes:

If you want to load a file as stereo OR 16 bit, the filelength must be divideable by two.

If you want to load a file as stereo AND 16 bit, the filelength must be divideable by four.

Crunched 8SVX-samples can't be loaded. I don't know how to decrunch a crunched 8SVX-file. But I never saw a crunched 8SVX-file.

If you want to load a file and you are 100% sure that it is a 8SVX or WAVE file, but SampleE says 'unkown format', then send me this file. I will have a look at my load-routines and at the file in order to find the error.

(I know a program, which writes WAVE files in a wrong way)

1.36 Mono / Stereo

Mono / Stereo

With this switches, you select wether the data have to be interpreted a as mono or stereo sample.

SampleE expects, that the stereo-byte order is following:

8 Bit: 12121212... 1 = 1 byte left; 2 = 1 byte right
16 Bit: 11221122... 1 = 2 bytes left; 2 = 2 bytes right

1.37 signed / unsigned

signed / unsigned

Here you select, wether the data has a sign or not.

Example:

8SVX and amiga-raw soundfile have values from -128 to 122 -> signed

WAVE 8 bit format has values from 0 to 255 -> unsigned

1.38 8 Bit / 16 Bit - Motorola / Intel

8 Bit / 16 Bit - Motorola / Intel

Here you select wether the data has to be interpreted as a 8 bit or 16 bit sample.

If you select 16 bit, Motorola/Intel has following meaning.

In order to get 16 bit, you have to combine 2 bytes. This can be done in two

different ways.

Motorola: left is the high-byte, right is the low-byte

Intel : right is the high-byte, left is the low-byte

If you have a unknown file, only trying will help, but if you know from which computer the file comes from, you can set the byte order well aimed.

1.39 skip

skip

Here you can set the number of bytes, which you want to be skipped.

This is useful e.g. if you know how big the file-header of the file is or if you want a file as 16 bit-stereo, the filelength must be divideable by 4. You can reach this by skipping by 1,2 or 3 bytes (depending on the filelength).

1.40 MultiIO-Load

MultiIO-Load

The file is loaded with these parameters and with a bit luck, the result is the wanted.

1.41 cancel

cancel

Loading is canceled.

1.42 save

save

Following window appears

Format	options	
8SVX	mono	8 Bit
WAVE	stereo	16 bit
RAW	signed	Motorola
	unsigned	Intel
	compress	
save	cancel	

1.43 save format

save format

8SVX: is the most common format on the Amiga. But samples are only saved with 8 Bit and not with 16 Bit !!! Stereo samples are converted to mono !!!
If "compress" is activated, the sample will be compressed using the fibonacci-delta-method. Die compression is always 50%, but this method has in most cases a (high) lost of quality !

WAVE: is mainly used under Windows. There are some options:
you can save as 8 Bit/16 Bit and Mono/Stereo

RAW: is a flexibel format, with one disadvantage: it is not saved, in which format the sample was saved !
You can select between 8 Bit/16 Bit; Mono/Stereo; signed/unsigned and Motorola/Intel auswählen. You can find a description of the parameters under load
If you select RAW, the default values 8 Bit, Mono, signed, Motorola will be used. These values are equal to the AMIGA RAW-format.

1.44 save

save

A filerequester appears with which you can save the sample.

1.45 cancel

cancel

Saving is canceled.

1.46 volume window

volume window

```
start      |
>          |
100 %      |
end        |
>          |
100 %      |

fade in
fade out
maximum   do volume
```


With the shift-function you can shift the wave-form up/down. This may be useful if the values of a sample are only above/under the zero-line. This may be unfavourable for some functions like e.g. change volume, mix,... .

**** this function modifies a marked range ****

1.51 shift value

shift value

With the scrollbar you can set the value, with which the sample is shifted. On the right side the value is displayed.
A negative/positive value means, that the sample is shifted down/up.

1.52 useful shift-values

useful shift-values

```
' up ' - the shiftvalue is set to value which shifts the sample maximum up
' down ' - see 'down' but the sample is shifted down
' center ' - the shiftvalue is set to the value which centers the marked range
' zero ' - the shiftvalue is set to the value which moves the first marked
           byte to zero.
```

1.53 shift

shift

Das sample is shifted.

1.54 mix window

mix window

```
current    buffer
  50
  |
50
      do mix
```

This function mixes the current sample with the contents of the copy-buffer.

Note:

Is the current sample mono, the copy-buffer has to be also in mono.

Is the sample stereo, then there are two cases:

a) the copy-buffer is stereo and in the stereo-window the edit-mode is set

to 'both'.

b) in stereo-window is set to 'left' or 'right', in this case the copy-buffer has to contain mono data.

**** this function changes a marked range ****

1.55 mixing ratio

mixing ratio

With the scrollbar you can modify the mixing ratio.
Left/right of the scrollbar the ratio of the sample/of the copybuffer is displayed.

1.56 mix

mix

The marked range of the current samples is mixed with the copy-buffer, with the set mixing-rate.

1.57 echo window

echo window

```

    delay      |
50 %          |
    times |
1 *          |
    decay      |
50 %          |
    do echo

```

With this function, you can add one or more echos to a sample.

**** this function changes a marked range ****

1.58 echo parameters

echo parameters

With the scrollbars you set the parameters for the echo function. Behind the bar the value is displayed.

delay : this value defines, after how many percents of the marked range the

first/second/third... echo starts

e.g. 25% = after 1/4 of the marked range, the first echo starts

times : this value defines the number of echos

e.g. 3* = three echos will be calculated

decay : this value defines the decay of the loudness of the echos

e.g. 25% = the first echo has 75%, the second echo has 50%,... of the loudness of the original sample

1.59 calculate echo

calculate echo

For the marked range, the echo will be calculated with the set parameters.

1.60 frequency window

frequency window

```

    from          |
>
17000 Hz
    to           |
>
17000 Hz

    octave up          octave down
do with oversamp    do without oversamp

```

With this function you can modify the frequency of a sample without changing the replay rate (see info window. This function changes the length of the sample.

** this function modifies a marked range **

1.61 frequency parameters

frequency parameters

With the scrollbars you can set the from/to frequency. '>' a requester appears and there you can enter the value. On the right the value is displayed.

It will be the best, if I explain the meaning of the from/to frequency with

an example.

A sample is played with 20kHz. The replay rate stays at 20 kHz, but the sample shall sound as if it is played with 10 kHz. So you set the value of the from-frequency to 20000 Hz and the value of the to-frequency to 10000 Hz and calculate the newfrequency. Now the sample sounds, if it is played with 20 kHz, like the original sample would sound with 10 kHz.

1.62 octave higher/lower

octave higher/lower

The from/to frequenz is set to values, which make the sample an octave higher/lower.

1.63 calculate frequency

calculate frequency

This function affects the WHOLE sample and NOT a marked range.

'do with oversamp' : the calculation will be done with "OverSampling",
that means between/average values will be calculated
-> better quality, longer calculation time
'do without oversamp' : the calculation will be done without "OverSampling"
that means no between/average values will be
calculated -> worse quality, shorter calculation
time

Is the ratio fromfrequency : tofrequency bigger than 1:3 or 3:1, it may happen, that the calculation with oversampling sounds worse, than the calculation without oversampling

1.64 about window

about window

In the about window you find the versionnumber and the address of the author and information about the memory: available, used, maximum available and biggest continous memory-block.

It is differed between FAST and CHIP memory.

1.65 fragmented memory

fragmented memory

If several program are started/quited, data is loaded/deleted etc. it may

happen that your memory is splitted up in several small pieces.
 Samples have to be loaded in continous parts of memory eg. a 100 KByte big sample can't be loaded, if the biggest memory block is smaller than 100 KByte.

What can you do against fragmented memory ?

- Quit all programs, delete all file in RAM-Disks and execute the command 'avail' with the option 'flush'. (doesn't always help)
- reboot your computer (helps always)

1.66 audio window

audio window

```

    play
    all
  view
    mark
frequency >
17000
      |
volume    64
      |

```

If in SampleE_Prefs AHI was activated, the samples will be replayed using AHI.

1.67 play

play

- ' all ' the whole sample is played
- ' view ' the visible range is played
- ' mark ' the marked range is played

while playing a window appears. In this window is a gadget with the text 'stop play'ing'. If you klick on this gadget the playing is stopped.

1.68 set frequency

set frequency

With '>' a requester appears where you can set the frequency.
 With the proportional-gadget you can set the frequency, too.

Frequency means the frequency, with which the sound-hardware plays the sample.

1.69 frequency

frequency

Here is the current frequency displayed.

1.70 set volume

set volume

With the proportional-gadget you can set the volume.

Volume means the volume, with which the sound-hardware plays the sample.

1.71 volume

volume

Here is the current volume displayed.

1.72 stereo window

stereo window

```
    convert to
    mono
      mix
      50
    |
50  stereo
    normal
      edit destination
        both
        swap sides
```

1.73 mixing ratio

mixing ratio

This option is only needed, if 'convert to mono' the mode 'mix' is selected.

With the scrollbar you can modify the mixing ratio.

Left/right of the scrollbar the ratio of the left/right side is displayed.
rechten Seite.

1.74 convert to

convert to

```
' mono ' - converts the sample to mono
'stereo' - converts the sample to stereo
```

with the selected options.

1.75 to mono - options

to mono - options

```
'      mix      ' - the left and right side are mixed together with the
                    ratio selected below
' left > buffer' - the left side is copied to the copy-buffer, the right
                    side stays in the sample
' right > buffer' - the left side is copied to the copy-buffer, the right
                    side stays in the sample
' alternate ' - the both sides are "fit together" that means, that means
                one value of the left, one value of the right, one value
                of the right and so on -> the new sample is twice as long
                as the old
```

1.76 to stereo - options

to stereo - options

```
'      normal      ' - the original sample is used for the left and right side
'buffer > left ' - the copy buffer is copied to the left side, the original
                    sample becomes the right side
'buffer > right ' - the copy buffer is copied to the right side, the original
                    sample becomes the left side
' alternate ' - the original sample is divided that means the 1. value
                is placed to the left, the 2. value is placed to the
                right, the 3. value is placed to the left and so on
```

'buffer > left ' bzw. 'buffer > right ' need, that the copy buffer has the same lenght as the current sample.

1.77 edit

edit

```
'both ' - both sides are edited
'left ' - only the left side is edited
'right' - only the right side is edit
```

This option affects:

```
reverse
inverse
clear
volume
shift
mix
echo
```

1.78 swap sides

swap sides

The left side and the right are swapped.

1.79 preferences window

preferences window

```

                own screen                memory
mode  SUPER72:SuperHighRes                memory
colours
font  topaz 8
      use AHI

      save          use          cancel    load last
```

SampleE V2.90 has a new config-file format. SampleE_Prefs is able to load the old format and convert it to the new.

1.80 screen options

screen options

With these gadgets you can:

```
"screen " - use own screen or workbench screen
" mode  " - select a graphics mode
see also: recommended screen modes
"colours" - change the screen colors
" font  " - select a font
```

on the right the currently selected screen/font is displayed.

1.81 memory options

memory options

In the moment, you can't select anything. The samples are loaded into the fast-memory if possible. If there is no fast-memory available or everything is used, then chip-memory is used.

In a later version there will be some options.

1.82 use AHI

use AHI

If this is checked, SampleE uses AHI-device to replay the samples. This way it is possible to replay samples with 16 bit on a sound card. For more details read the manual of AHI.

Of course AHI has to be installed !

1.83 save

save

The configuration is saved to ENVARC:SampleE.prefs.

1.84 use

use

The configuration is saved to ENV:SampleE.prefs -> after a reset the configuration is lost.

1.85 cancel

cancel

SampleE_Prefs quits and nothing will be saved.

1.86 load last

load last

The last saved configuration is loaded.

1.87 recommended screen modes

recommended screen modes

You should use a screen with at least 640*400 or 800*300 pixels. On a smaller screen you will have only few space. You might use a small font, but this is often hard to read.

recommeded:

- all DBL-modes (DBLPAL, DBLNTSC) -> max 54000 Hz
- Euro 72 Hz -> max 57600 Hz
- Multiscan -> max 57600 Hz
- Super 72 -> max 46000 Hz

This mode are able to diplay high resolutions without flicker.
In this mode it is possible to play samples with up to 57.6 kHz.

not recommeded:

- PAL
- NTSC
- Euro 36 Hz

This modes flicker more or less strong or in the flicker-free versions the resolution is low. Samples can be played with only 28,8 kHz.

The program should run on graphic-cards without any problems. Maximum replay rate is limited to 28,8 kHz.

1.88 AHI

AHI

AHI is a replacement for the audio-device. It is driver based that means the sound output is done with the amiga soundchip or any amiga soundcard with a driver for AHI.

For more information:

AHI in Aminet:	
dev/misc/ahidev.lha	developer archive
mus/misc/ahiusr.lha	user archive
docs/misc/ahiman.lha	manual

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1.89 Paula

Paula

Paula is the name of the amiga soundchip. It offers 4 channels (two on the

left, two on the right), each with a resolution of 8 bit.

Some time ago a method was developed, which joins the channels of one side together enabling an output in 14 bit.