

Sid4Amiga

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COLLABORATORS

	<i>TITLE :</i> Sid4Amiga		
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REVISION HISTORY

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Chapter 1

Sid4Amiga

1.1 Sid4Amiga(68K/PPC) - Table of contents

Sid4AmigaPPC - V3.40b4
Sid4Amiga680x0

Sid4AmigaPPC / 680x0, Message System
Sid4Amiga Library, GUI and
playsid emulation library
By Paul Heams

Original GUI and Artwork By Chris Andrews
Glow Icons and Main Beta Testing Juergen Urbanek

Originally based upon
SIDPLAY
and
SID2WAV

I take no responsibility if this program should cause loss of ↔
data,
hair or computer equipment!!

Use this at your own risk.

1.1	Introduction....
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	What You Need...
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	Contact : "Bean"	- PM me at AmigaWorld.net

1.2 Introduction

Introduction

Well it appears that many of you Amigians out there have been crying out for a fully functional Commodore 64 Sid Player for ages now - Myself being one as well. The MAC has one, the PC has one and so do most UNIX machines! ..but what about the poor old Amiga?

Here it is - and an OS4 PPC version at that!

**

- * A GUI interface with RealTime Mixing / Effects and Filters.
- * Supports all types of Sid Files (MUS/INFO/PSID)
- * Supports C64 Filters / Ring mod and Sync modes.
- * Supports AHI audio device and AHI direct.
- * Can produce WAV files with fades.
- * Has Stereo / Mono / Surround / Auto Panning playback modes.
- * 16 (ahi/wav) / 8 Bit (wav) generation.
- * DSP Reverb effects

**

It was originally based on a port from the linux

```
SID2WAV
and
SIDPLAY
sources.... but now... It's gone Amiga specific!
```

1.3 V2 - V3 Explained.

In a NutShell

I lost the code - I know I should have made a backup (and I have now). What you are using/about to use is a total re-write of Sid4Amiga so the new version is largely incompatible with version 2. But don't worry about that! - This version is much better!

Improvements

- * Auto Tune End Detect (CLI only at the moment '-d').
(Searches for very low levels of sound to try and predict tune endings).
 - * Most - if not ALL the sid tunes now work. (I haven't come across a failure yet!)
 - * Port code for communication between the GUI and EXE has been re-written and is much better.
 - * GUI improvements.
 - * Faster (optimised for PPC at any rate!).
 - * Multitasks better!
 - * Large/Small Buffer mode allows a choice between smoother playback or faster realtime filter / mixing desk response.
 - * DSP Reverb! - Yep, enhance those C64 sounds.
 - * PlaySid Emulation Library! - Yep, dig out the old PlaySid and listen with improved AHI/DSP/FILTERED sound.
 - * Re-Written MUI GUI - Now with:
 - MultiTune - Playlist Support.
 - Timer - Playing Time Settings.
 - Tune Settings - Individual or Default
 - Better Prefs - Global/Defaults/Misc Settings
 - Drag'n'Drop - Try it out!
 - Recursive Directory Loading (Registered)
 - * Re-Written Global Prefs now with higher priority settings and new settings (playmode).
 - * It's been Beta Tested before release! ;)
-

1.4 Feedback

Feed Back

OS4 Native Version

Sid4Amiga has now moved with the times and is available in this special OS4 version. Enjoy

DSP Reverb

Try it out!

I've had a few mails about various subjects listed below.

Why do you bother? Hippoplayer is much better?

In its current state Sid4Amiga is no way up to the status of Hippoplayer or many of the other Multiplayers out there. It is NOT intended to be. Sid4Amiga is firstly a complete Sid Player (Filter / FULL sample emulation). It is designed for all the people with PPC's who want better sound quality than PlaySid. For this reason it is based upon the highly respected SidPlay Linux source. If you don't agree with this then quit this guide now and wipe Sid4Amiga from your hard disk.

Sorry, for the ranting but please if you don't like this software and think that I'm somehow wasting my time or single handedly destroying whats left of the Amiga market then don't use this and don't tell me!

Ahem.....

680x0 Versions

Although Sid4Amiga comes in several flavours (OS4, Warpos, 68040FPU and 68020) it has only really been designed for the PPC range of processors. Due to the nature of the original source and the application itself optimising this with 68000 assembler doesn't seem worth it. If we are to survive as a platform we must move on, this has been built for the times. The interface runs on a 68000 and the Sid Emulator itself runs on the PPC. By doing this you get an application capable of all the bells and whistles without dragging the system to a stand still. I can run the application and leave it playing without having to worry about the system strain to much.

Sid4Amiga will change and keep up with the latest Amiga developments, the 68000 and WarpOS versions will be dropped eventually.

1.5 What You Need

WHAT YOU NEED

- Sid4Amiga - This archive.
- OS4 - Go on, upgrade to the latest Amiga Hardware!
Of course you can always install the 680x0 version.
- AHI - Version 4+ (Installed preferably with the audio device mounted, unless you are only going to use AHI Direct)
- MUI - Magic User Interface (Only needed if you want to use the GUI).
- ASyncio Library - From version 0.84a onwards this library will be required ←
for Audio Device or WAV output. AHI Direct requires the library but does not use it.
- A hot cup of tea and - Any variety - While you listen to those old 64 tunes ←
remember the first time you heard C64 Sid music and ←
fell
off your chair in awe! (I think it was Phantoms of the ←
Asteriod
that did it for me!)

1.6 Installation

Automated Installation

Easy! - Simply double click the INSTALL icon and follow the on screen instructions.

NOTE: V3 is not a compatible V2 as almost all of the V2 code was lost in a hard disk crash. When the re-write took place I could only partially get it to work with the old GUI utility. For this reason the installer will ask if you wish to backup the old Sid4Amiga program before overwriting.

Manual Installation - Not Recommended

1/ Copy the Sid4Amiga Libaray (in libs dir) to LIBS:

Note: This is not required for the OS4 version.

2/ If you have an 020/040fpu only then copy the relevant version from the Sid4Amiga680x0 directory into the main Sid4Amiga directory. Delete the Sid4Amiga file which is already there (this is the WarpUp version) and rename the copied file as Sid4Amiga

3/ Click the GUI icon or start from shell.

MAKE SURE

1/ You have set up AHI (V4) with the audio device mounted and set up

your specific sound system. You should set 1 channel in stereo++ mode for best effect. - (Stereo ++ modes are NEEDED for stereo, surround and panning mixing routines.) If you want to use direct AHI you only need AHI installed - the audio device set up is not needed.

2/ MUI has been correctly installed.

3/ For the WarpOS version you'll need WarpOS 4.0+ installed.

You are sipping the tea!

1.7 Amiga Functions / Specifics

Whats in it for the Amiga?

- * Environment Preferences.
- * GUI or CLI control.
- * Realtime Playback.
- * Render the output to a file in WAV format.

There are three ways of playing the sid files:

- 1/ By rendering them as WAV files and playing them back with your favorite sound player (eg: Play16)
- 2/ Directing the output to an audio device (Needs AHI)
- 3/ By playing the song directly to AHI.

1.8 Usage

USAGE

Sid4AmigaPPC can be executed from either CLI or by clicking the GUI icon.

GUI USAGE

Main Window

Mixing Desk

Play List

Preferences

About

CLI USAGE

Type:

Sid4Amiga ? or Sid4Amiga -h for a list of options.

Syntax: Sid4AmigaPPC [-<commands>] [<datafile>|-] [outputfile]

```

commands: -h / ?      Help! (this text)
          -aud<num>  Set AHI audio device (x) for output (default: 0)
          -ahi       Request AHI Direct
          -q<num>    Set frequency quality (1-4 = 11/22/41/48khz)
          -16        16-bit (default: 8-bit in WAV mode)

          -fm        Force Mono (Overrides Global Prefs)
          -s         Stereo
          -ss        Stereo Surround
          -sap       Auto Stereo Panning

          -o<num>    Set song number (default: preset)
          -a         Improve PlaySID compatibility (not recommended)
          -a2        Transparent ROM memory mode (overrides -a)
          -nf        No SID filter emulation
          -mos        Use MOS 8580(r5) waveforms
          -n         Enable NTSC-clock speed for VBI tunes (not recommended)
          -m<num>    Mute voices out of 1,2,3,4 (default: none)
                   example: -m13 (voices 1 and 3 off)
          -t<num>    Set seconds to play (default: 60)
          -b<num>    Skip first <num> seconds into the song (default: 0)
          -fin<num>  Fade-in time in seconds (default: 0)
          -fout<num> Fade-out time in seconds (default: 2)
          -p<num>    Task Priority (-1 to 3)
          -wav       Request WAV mode (default: RealTime)
          -int       Request INTERNET mode (default: RealTime)
          -i         Ignore All Global Prefs (use built in defaults)
-dsp      DSP Type (1-10)
          -1         DSP Send Level (1-127) (default: 50)

          -d         End of tune auto detection
          -v         Verbose Information

```

How it all works

WAV file generation is automatically done by supplying an output path.

EXAMPLE:

To convert a sid file to twelve seconds of Stereo Surround CD quality WAV data type:

```
Sid4Amiga <songfile> -t12 -sap -mos -q3 <outfile>
```

The AHI audio output is specified by selecting the '-aud' option (short for audio) or '-ahi' for direct AHI. In both these modes the output will play in 16 Bits in either Mono, Stereo, Stereo Surround or Auto Panning.

EXAMPLES:

To play a sidfile to audio device 1 until CTRL_C is pressed type:

```
Sid4Amiga -aud1 <songfile>
```

To play a sidfile to the default audio device (eg: 0) type:

```
Sid4Amiga -aud <songfile>
```

To play a sidfile using direct AHI in Stereo Surround type:

```
Sid4Amiga -ahi -ss <songfile>
```

1.9 Main Window

Main Window

The main window is where most of the control is done. From here you can load tunes, select songs within a tune, load/save a playlist or select one of the other windows.

The Main Buttons:

- Prev Button T.. Goes to the Previous tune in the playlist.
- Play Button.... Plays the current tune
- FF Button..... Fast Forward (Increase the speed of the tune, not the pitch).
- Pause Button... Pauses the current tune
- Stop Button.... Stops the current tune
- Next Button S.. Goes to the next song within the current tune.
- Prev Button S.. Goes to the previous song within the current tune.
- Eject Button... Ejects the tune from memory.
- Next Button T.. Goes to the Next tune in the playlist.

- Song Selector.. Use the mouse to quickly select the new tune.

- 'Info Window'.. Songs details (Authour, Name, Copyright etc).

Use the menu items to select other windows and extras.

1.10 Mixing Desk

Mixing Desk

Basic Usage:

The Preset controls sit at the top of this window. This allows you to save your own mixing settings. It basically takes a snapshot of the current Mixing controls below.

Use the small arrow buttons to select one of the 16 different presets and then alter the settings below. Once you are happy with the effect enter a name for the preset at the top and select STORE.

Remember to save the mixing settings by using the Save Mixer Settings under the Settings menu.

Mixing Controls:

Enable Mixing - Allows the volume and panning to be specified by the mixing desk GUI (Turning this OFF will give the fastest possible software mixing speed).

Enable Filters - Enables the SID filters, and allows the three separate filter controls to effect the filter settings.

Stereo Effect - Available in every mode but MONO you are able to select different effects:

1/ - Normal Stereo

Allows Panning and Volume in MIX mode.

2/ - Surround

Enhances the sound with a surround effect. Volume controls have effect but Panning is not allowed.

3/ - Auto Pan

The stereo effect is controlled by the program, the Volume / Panning controls have no effect in this mode.

Filter Controls (0 .. 100%)

Use the sliders to change the filter strengths

Volume Controls (0 .. 256)

Use the sliders to change the volume levels for each channel.

Panning Controls (-127 .. +127)

Use the sliders to pan the channels left and right (Stereo Mode only).

NOTE: It is possible to overload the sound by (for example) setting all pans to an extreme left or right. Watch out.

1.11 Preferences

Prefs Window

This window contains options from the Global Prefs Program and additional settings for the player.

Global

Quality..... Output quality of sound (Default Tape).

Device..... Specify either AHI Direct or Audio 0 - 3.
 Panarama..... Mono/Stereo/Surround/Auto Pan.
 Wave 8580..... Use 8580 Waveform tables?
 Filter..... Turn Filters On/Off by Default (See Mixing
 desk).
 Force NTSC..... Force tune to play at NTSC speed.
 Large Play Buffer. Use a larger buffer to precalculate sound.
 ** This can result in smoother playback
 but reduces the response of the realtime mixer.

Defaults

Song Timer..... Default period of time to play
 a tune before loading the next tune.
 ** If set to Default then the timer is switched off.
 Default Dirs..... Default locations for tunes/playlist.

Misc

Misc Settings for your personal preference.

1.12 Playing List

Playing List Window

The basic idea of the playlist is to allow you to set up a series of songs that will play after each other. You are able to specify how long each tune plays for, which song number is to play and what mixing settings to use.

Basic Usage :

In it's simplest form you can double click on the songs which you have previously loaded to gain instant access to them.

Basic Editing :

The UP, DOWN and DELETE buttons allow you to move single selected songs around and delete them if needed.

Advanced Editing :

Select the Editing Button at the top of the window to allow access to the advanced editing controls. From here you can alter the properties of the currently loaded song (ie: The song that has been double clicked or displayed in the Main Play Window).

Playing Time

To alter the playing time you can alter the Play Time Slider. Selecting "Default" will set the song the amount of time specified in the

Preferences Window

.

The Get Time option takes the current playing time from the main window to be the song length.

Song Number

Sid Tunes usually have several songs within them. A default song for a particular tune is what you hear when you initially load a sid tune. The Get Song button allows you to get the current song playing (selectable in the main window) and use this as the song to play when the tune is next selected from the playlist.

Using the Default Song button reverts the sid tune to it's built in song number.

Mixer Settings

The Get Mixer button takes the current preset from the

Mixing Desk

window and stores it with the current tune in the playlist. This allows you to have different set ups for different tunes. For Example: If you wanted a stereo surround effect associated with a particular tune you can set up a stereo surround preset and assign it to the tune within the playlist.

1.13 Fast Play

Fast Play Window

** Documentation to come **

1.14 About

About

Information about Sid4Amiga!

1.15 Help and Problems

Help

0) - "The song plays like its fast forwarding all the time"

Firstly install version 3.16r4 and above. This should fix a bug which was introduced in version 3. Secondly make sure that AHI has been installed correctly, and check the AHI prefs if you are using the audio device mode. Lastly, make sure that you Save all Sid4Amiga prefs with the preferences program after installation. This should cure these problems.

1) - "Why does the sound keep cutting in and out or keep skipping?"

If your Amiga can't render the Sid tune quick enough you will experience these problems. Try selecting a lower quality setting, turning off the filter and set the output to play to AHI directly.

2) - "The tunes don't sound right!"

To emulate the C64 Sid Chip 99.9% you'll need to enable the filter settings. This takes a fair bit of processing time even for PPC cards. Only use this option if you've got the power. (My PPC '240Mhz is fine for the job!)

3) - "I only get the sound in 1 channel"

Easy - Just select a Stereo++ mode from the AHI requester or edit the audio device to handle the ++ mode. You should always play in stereo++ modes (even for Mono).

4) - "I can't hear a damn thing!"

Make sure that you have AHI Version 4 installed correctly, and you choose an appropriate audio mode.

Try a different play mode from the GUI (Player Button) or CLI (-a / -a2).

Try one of the included sid songs to see if you can get anything at all.

5) - "What does the Sid4Amiga Library do?"

The Sid4Amiga library helps to break down the barriers of maintaining the PPC and 68000 versions simultaneously. It is basically a utility library containing code that must be run on the 68000, in this case it is mainly used for direct AHI output. The library is not a replacement for the playsid library.

6) - "Why does it all take so much processing power?"

The program is basically emulating a Commodore 64 processor, Sid chip and mixing device in real-time.

Or should I say, "You have OS4 installed right??"!

7) - "The Mixing Desk isn't exactly realtime"

Try unticking the Large Play Buffer setting from the MUI GUI. If your machine can cope it will not calculate the sound so far ahead and the changes will be actioned much (much) quicker.

8) - "As soon as I use another program the sound goes all wrong."

Up the task priority by using the -p option, if you are using the GUI then you'll have to wait (-p9 should be enough). If it is too high and your machine is too slow then your machine can lock up.

9) - "IBrowse crashes the sound playback (Prelude Users Only)."

Something I have noticed when outputting to me Prelude card. I think this must be a conflict between the sound drivers and IBrowse starting up and shutting down as it occurs while other apps are also playing. I will mail the authors and see what can be done.

10) - "Why did you bother making this app?"

For the same reason you probably downloaded it ;)

11) - "I hate this program - it's so badly written!"

That's fine, don't use it! - But remember it's free, OS friendly, fully functional and quite nippy considering what it has to do! (I'm talking about the PPC version here) Do not moan to me about how rubbish it is. Constructive criticisms only!

12) - "Well I like this program, can we expect updates?"

Yes. What else do you want to see in future releases? Sending emails of ideas may motivate me further! See my on AmigaWorld.net under the handle Bean{ub}!

1.16 Environment Preferences

Environment Preferences

All environment prefs are saved via the Global Prefs and are stored in `envarc:/env:` under the Sid4Amiga directory. The preferences should really only be set by Sid4Amiga applications (like the GUI or Global Prefs), though if you know what you are doing feel free to change them! Just don't tell me about it! :)

Variable	Description	Parameters
<code>mode</code>	Output Mode	{AUD0 AUD1 AUD2 AUD2 AHID}
<code>quality</code>	Output Quality	{RADIO TAPE CD DAT}
<code>ahimode</code>	Hex Number that represents the AHI Direct output (eg : 000C0004)	
<code>priority</code>	Songplayer Priority	{-1..9}
<code>stereo</code>	Mono/Stereo	{0 1} (on or off)
<code>panarama</code>	Output Panarama	{SURROUND SAP}
<code>bits</code>	Output Track Bits	{8 16} (only effective in WAV mode)
<code>filter</code>	Emulate Filter	{0 1} (on or off)
<code>wave8580</code>	Wave 8580 mode	{0 1} (on or off)
<code>soundbuffer</code>	Large Buffer	{0 1} (on or off)

Other variables will probably be added later.

1.17 History

HISTORY

In latest version order..>

BETA V3.0x

- V3.40b4 - Converted from Storm C to GCC.
 - OS4 Interface code added
 - Bug fix in DSP memory allocation routines.
 - OS4 compile.

 - V3.40 - Back from the dead? - Well not quite - more like we've caught Sid on a long Holiday.
 - Some little fixes.
 - Song auto detection built into the GUI. Use the slider bars to select (Default / Automatic or a Time). Remember default will use the global timer in the prefs section
 - Guide update.

 - V3.32 - Fixed a fatal bug when if WAV file name was specified.
 - Silence detection for rough end of song query. For the moment only supported in CLI mode (-d to enable).
 - If you break the WAV generation the WAV header is re-calculated and altered in the output file.
 - Time count fixing.

 - V3.30 - Added a work around for dealing with spaces in filenames (CLI version). The argument in gives odd results. Now working.

 - V3.28 - Assign 'S4A' added to user startup within the install script. Please add the assign.
 - Tidy up and release!

 - V3.26 - If the app icon image is available "icons/S4AppIcon.info" then the standard MUI app icon will be replaced.
 - Bug fixes due to hits with MuForce (No more write back occurrences (← however small))
 - New Memory Protected executables available:
(Sid4Amiga Prefs, Sid4AmigaMUI, Sid4Amiga main exe (68020/Warpos)
** Requires the MMU library **
 - Warpos Version Allocates write protected memory areas for its sound buffers.
 - Workbench SidTune start up. You can now select a sid tune or multiple tunes with Sid4AmigaMUI from WorkBench.
 - Set up of DefIcon44 (under OS3.5) can now include sid tunes so you can just double click those '.sid' or 'PSID.' for instant startup (if S4A isn't running).

 - REGISTERED: Backwards search implimented.

 - V3.24 - I'm off for a short break so it's about that time to release S4A before I go:
-

- Key file detection/system added for registered users.
- .info file detection (so it won't try to load .info files)
- Most PatchWork Error detections fixed (Thanks to Richard Körber for this excellent utility!).
- Original/OS3.5/New Icons.

- REGISTERED: Recursive/Straight DIR loading. Drop a drawer icon onto the playlist or main app window. Or Specify a DIR without a file from the File Requester.

- REGISTERED: AlphaNumeric / NumericAlpha Bubble Sort for Playlist (Useful when you have many items from recursive loading).

- REGISTERED: 32 Mixer Presets instead of 16.

- REGISTERED: Find Function to quickly scan through the playlist for a particular Song. (Function for Case Insensitivity. Backwards not implimented yet)

V3.16r4- The FINAL V3.16 revision! (Probably)

- Fixed a bug whereby some people were getting fast forward play problems in GUI mode.
- Added the reset Filter/Volume/Panning at long last!
- I actually used my own application and played around with it for several hours. As yoda would say, "Pleased I am."

V3.16r3- Fixed a bug whereby songs on a directory root (eg: Ram:Rambo.sid) would be shown in the playlist without the first letter.

(Thanks to Lee Cook for pointing that one out to me)

- Now that this problem has been fixed you will have to re-add the incorrect songs to any saved playlist.
- Added some extra Song Loading protection.
 - Added function to GUI to bring up a load requester when eject is pressed and no tunes are in the playlist.
 - Installer update:
 - : Makes sure that Sid4Amiga is not running before installation.
 - : Fixes the 'image-copy-over' bug by making use of avail.
 - The AHI Direct from the CLI quits faster when CTRL C is pressed. (The Audio Device has also been sped up a bit).
 - -i in CLI mode does not clear the AHI Mode ID. This should improve compatibility with DeliSid4Amiga and the V3 executable when using Direct AHI.
 - Sid4Amiga Library updated a little (V3.5)
 - Bug fix whereby the main task crashed out if the AHI direct mode could not be allocated in gui mode. Now you simply get silence.
 - Fixed a problem whereby the Fast Forward could get stuck on if the play timer stopped the song or you came to the end of the list.

V3.16r2- Added the MUI Prefs to the GUI

- Bug Fixes: CLI Panarama Mode was shown even in Mono.
- : Switch over from AHI Device to Direct fix.
- : More responsive Audio Device Mode? - Please use Direct, it's much better!

- : Change from Audio to AHI fix (it kept forgetting the audio mode).
 - Icon update (Thanks Juergen)
 - Documentation update - Sigh, a service release (very M*cr*s*ft)
- V3.16r - Small Mixer Window.
- Database code (Playlist) updated and bug fixed.
 - Feedback section in this guide.
 - Stereo ENV variable added and Panarama reduced to just SURROUND/SAP and NONE.
 - Audio Device Output improved a little, but I recommend you use AHI Direct.
 - 680x0 versions compiled.
- V3.16 - Never Released
- Small Window Startup - how cute.
 - 16 Mixer Presets (Can be Altered!)
 - PlayList V6 - Now supports a Mixer Preset per Song.
 - Some GUI Changes.
 - Mixer Filter Sliders altered for ease of use.
 - Almost there.
- V3.14 - Never Released
- Kicking! ;)
 - Graphical TapeDeck Buttons
 - Large/Small Buffer modes added (See docs for more details)
 - MUI Gui Prefs Galore (If you like to configure!)
 - Flashing Play Button, Pause gui fix.
 - Bug fixes addressed from Beta Testers.
 - Cleaned up and added prefs for playing startup modes.
 - Time Sliders.
- V3.04 - Never Released
- Mixing Desk Working Again
 - Song Timer / Play List Timer.
 - PlayList Tune Selector.
 - Fast Forward Speed Increaser!
 - Loads of bug fixes (mainly with the GUI).
 - Bug fixes for loading '.info' file sid tunes.
 - Load/Save Play Lists.
 - GUI Requesters added.
 - Drag'n'Drop fixed.
 - Documentation updates.
- V3.02 - Never Released
- A TOTAL rewrite due to all the lost code - I should have known the Hard Disk was on it's way out back at V1.26a!. Rest assured it is now backed up on many different disks and CD Roms!
 - Faster executable (for PPC at any rate).
 - Better Sid4Amiga utility library.
 - Most - if not ALL songs appear to work now.
 - New GUI re-written from scratch (Most of the old features have been put back in with some new ones added in).
 - V2 Compatible CLI executable which should still work with DeliSid4Amiga!
 - Priority now extended to a maximum of 9 (from 3).
-

- New Glow Icons (Thanks to Juergen Urbanek)
- Guide/Installer updates.
- Re-Written Global Prefs

BETA V2.x

- V2.00b - Bug fixes to global prefs in the main executable.
- Internet options ready and working (-int)
- Override Global Prefs option (-i)
- Force Mono Mode (-fm)
- Small tidy up of GUI, though you'll have to wait for future releases for any big changes.
- Aminet release go with the new DeliS4A project by Petter Mattsson!

ALPHA V1.x

- V1.82a - Bug fixes
 - Auto Pan Mode did not startup properly.
 - General bug fixes.
 - Small Play window (but does not work 100% yet).
 - Better Menu options.
 - Guide changes.
 - V1.72a - Never Released
 - GUI Mixing Desk!
 - Stereo Mode from GUI wasn't working! (Did no-one notice?)
 - Realtime Filter, Volume and Panning functions from the GUI!
 - Menu improvements within the GUI (Getting there...)
 - Realtime Stereo Effect selector (Stereo / Surround / Auto Pan)
 - Bang up to date - now based on the latest PlaySid source.
 - Installer script changes.
 - V1.52a - Never Released
 - Updated GUI slightly (Loading window, code changes)
 - 680x0 versions now include Safe Play operation (Maybe slightly slower, but at least they won't totally lock your machine up!)
 - Installer script changes.
 - V1.48a - Faster response time in GUI mode.
 - Bug fixes to the -h and ? option in CLI mode.
 - New NTSC and Play mode switch in GUI / Message system.
 - Song Selector for the GUI.
 - Fast Forward changes.
 - Default DIR prefs 'cancel' bug fixed.
 - V1.32a - Bug fixes to the AHI Direct output in GUI mode.
 - Song player priority for both GUI and CLI.
 - Fast forward feature added.
 - Global Preferences (ENV / ENVARC)
 - Global Prefs GUI!
 - Default Song Dir!
 - V1.26a - Never Released
 - Some code re-written from scratch due to hard disk failure :(
 - Environment preferences added to Main App and GUI.
 - Song player priority added (only when using CLI for the moment)
 - Tunes with 255+ songs now work correctly.
 - Document changes
 - Slightly newer GUI (Though we've disabled some of it again..)
-

BETA

- V1.01b - Bug Fixes and more Stability!
 - AHI requester bug fixed.
 - No output mode caused crashes - not any more though.
 - Beta Release, time to hit the Aminet.

ALPHA

- V0.86 - Set parts of the code to the slightly older version of SidPlay, (1.36.18) as it was MUCH quicker (there wasn't too many changes anyway ← !)
 - I've added some parts of 1.36.32 code - like the new envelope code, power packer routines and the 6510 emulator.
 - Sid4Amiga library updated to V1.3 (now the direct AHI works MUCH, MUCH, MUCH better - (though never abort the AHI requester while in the GUI (!BUG!))
 - Clean routines for the main code.
 - GUI now defaults to AHI Direct instead of Audio Device 0.
 - Updated documents (and made installer copy the guide whoops!).
- V0.84 - EXE : Synced code with latest SidPlay Source (1.36.32)
 - Seems a little slower. HMMMMMMMMM, much slower.
 - Added direct AHI support for GUI message system.
 - Fixed description sending to GUI (shouldn't crash on description files)
 - GUI: Using Chris' Amiga wired up to a TV and a half held together keyboard the direct AHI option was added (see Prefs). Also a bug fix with directory locking.
- V0.62 - Support for new file types:
 - PSID single / MUS / PSID INFO files.
 - Proper detection of different file formats
 - Installer Script
- V0.44 - Direct AHI implimentation
 - Some new internals (68000 version are slightly quicker)
 - V1.0 of the Sid4Amiga Library.
- V0.42 - GUI : Preferences Settings
 - About Information
 - EXE : Message System bug fix.
 - 68020 / 40fpu and 060 versions.
- V0.38 - Never Released
 - NEW : GUI Interface! :)
 - Message system
 - Internal bug fixes.
- V0.30 - NEW : WAV generation progress bar.
 - NEW : Auto Stereo Panning mode.
 - NEW : Optional MOS 8580 waveform generation.
 - NEW : Now uses floating point maths for sound envelopes.

Improvements / Fixes

- Skip song position fix.
-

- Improved audio handling using the AHI Audio device.
- Smaller / Faster Code (Main executable is now - 160K).

Coded - but not included yet

- Internal AHI direct functions - waiting for AHI PPC.

V0.26 - Added double buffer routines ready for the direct AHI
- Selectable audio device output

V0.24 - Second public test version
- Fixed a memory leak and improved the error handling.
- Removed frequency selection.
- Added a quality switch!

V0.19 - First public alpha release

V0-0.19 - Never Released
Conversion of
SIDPLAY
to Warpos

1.18 Future

FUTURE

Things that will appear regardless:

- * Cat Weasel real sid chip support.
- * CLI generation bar (Like in V2) and general Clean Up.
- * Two Pass Alpha Sorting (Soon)..
- * Fix
BUGS
!

Things that may appear.

- * OS4.0 GUI
 - * Sid4Amiga Play libray for putting Sid Songs into your own applications.
 - * ARexx port?
 - * Sid Save as single file option.
-

1.19 BUGS :(

BUGS

Any bug reports PM me (Bean) on AmigaWorld.net

**

Current Bugs

1/ Some cli interface tweaks required.

1.20 Only Me

ONLY ME

Paul Heams
Computer Application Developer

Previous releases : MemIcon
MpegaPlay
Httpget
Turn_Around (Mpeg song)
Sid4Amiga Original.
The Bean Themes
Space Man Dance
CD_Stop

PM me at Bean on Amigaworld.net

1.21 SIDPLAY / SID2WAV / PLAYSID

SIDPLAY, SID2WAV and PLAYSID

Sid4Amiga uses the SIDPLAY C++ routines...:

The original Sid Engine was written by Michael Schwendt.

Copyright (c) 1994-1997 Michael Schwendt. All rights reserved.
InterNet email: 3schwend@informatik.uni-hamburg.de

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OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

It also incorporates the skeleton of SID2WAV and its command template :

Sid2Wav was written by Michael Schwendt and Adam Lorentzon.

Copyright (c) 1994-97 Michael Schwendt and Adam Lorentzon.

All rights reserved.

InterNet email: Michael Schwendt <3schwend@informatik.uni-hamburg.de>

Adam Lorentzon <d93-alo@nada.kth.se>

1.22 Thanks :)

Thanks go to:

Chris Andrews - For the original GUI!

Haage & Partner GmbH - The Developer Survival Kit was a very good purchase.

Eyetech - Thankyou for the Hardware!

Hyperion - OS4, it really does rock!

Eleanor Heams - For being my Wife!

Zero-X / O'Moses - For the Nice Icon!

Juergen Urbanek - For the Brilliant Glow Icons and Beta Testing.

Thanks for everyones support!

1.23 Links :

Sid Related Links:

Main S4A Site : <http://www.heams.net/sid4amigappc>

(More to come)

1.24 What is it?
