

Analog vs Digital Music

Should I Change?

DIGITAL RECORDING

- For full detail on Digital recording

Visit:

- http://arts.ucsc.edu/EMS/Music/tech_background/TE-16/teces_16.html
- OR
- www.highcriteria.com
 - (Left Menu .. Primer on PC Audio)
- Both of these sites have good explanations of the Digital process

IN BASIC TERMS

- Our music, for the most part (because we are recording vinyl (analog) onto PC's), will only ever be digitally enhanced not true digital music.
- Going Digital should be considered another tool in your toolbox
- Also, understand it is a caller/cuer convenience - not a dancer necessity!

Understanding the Terms

➤ **MP3**

➤ Is short for MPEG3, which stands for **Motion Picture Experts Group, Audio Layer **3**.**

➤ The technology creates sound files 1/10th the size of standard CD music files with very little loss of sound quality. Typically 1 MB is equal to one minute of music

➤ **WMA**

➤ **Windows Media Audio**. Used exclusively on Windows operating systems.

➤ Also a compressed near CD quality recording format

Understanding the Terms

- **WAV** file format was developed jointly by Microsoft and IBM as the standard format for sound on PCs.
- WAV sound files end with a .wav extension
- WAV files are the most common standard for recording audio in a Windows environment.
 - Within the WAV format, quite a number of different compression methods may be used. A number of these compression methods are available as a standard part of the Windows operating systems

Understanding the Terms

- It is recommended that .wav files be left in the original uncompressed state if file editing is going to be done.
- On a store purchased CD, or even one you make on your PC, the file extension will be .cda. Which means Compact Digital Audio
- This format is used to enable play in any type of CD player. Home, Auto, Portable or PC

Understanding the Terms

- Unlike MP3 or WAV files that can reside on your PC you require a .cda – MP3 or a .cda to WAV converter if you wish to store these CD files on your computer or make your own CD's or mini disks from a computer.
- Here are a few converters:
 - There are more on the net
 - Audio Catalyst ... Alto MP3 maker
 - TS-audio MP3 ... CD to MP3 Ripper
 - Windows Media Player 10 for XP

Digital Tools!

CD's



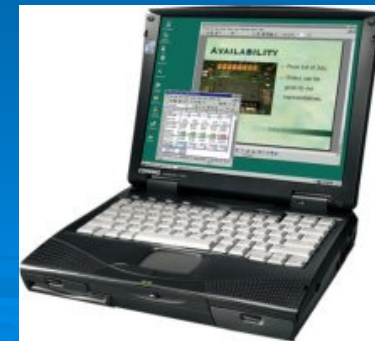
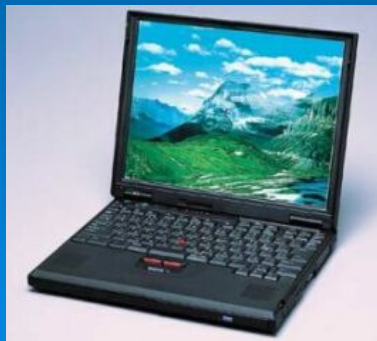
iPod



Mini Disk



Laptop Computer



What do I Need to Hook Up?



**1/4 Mono
to Mini Stereo**



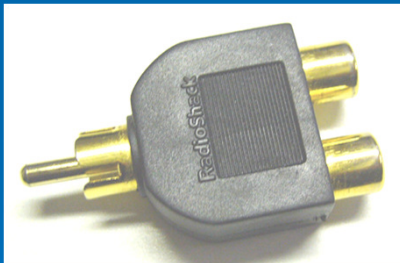
**Mini Stereo
to RCA Mono**



**RCA Mono
to Mini Stereo**



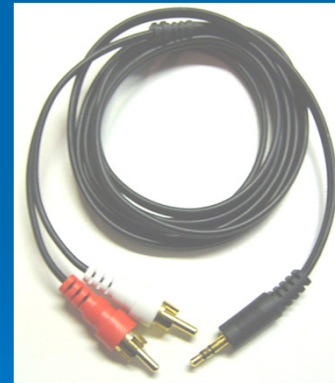
**Mini Stereo
to RCA Stereo**



**RCA Mono
to RCA Stereo**



**Mini Stereo
Joiner**



**Mini Stereo
to RCA Stereo**



**Mini Stereo
to Mini Stereo**

The PC Recording Process

- There are no hard and fast rules
- What I am going to demonstrate is the method I use
- There are several pieces of software on the market today that are very good Here are a few
 - Adobe Audition
 - Gold Wave
 - Audacity by Sound Forge
 - Sonic Foundry
 - Steinberg's WaveLap
 - They range in price from \$0.00 – \$400.00+

To Create The Music File

- You require a reasonably fast PC with a high quality sound card.
 - Must have a Line-in or **High Definition Audio** port not just a mic input. Or the ability to add an external (USB or PCMCIA) Sound Card
- I would suggest at least a Pentium III with minimum 512k of RAM.
- Hard drive size determines how many files you can store.
 - 30 - 40 gig should be considered minimum.
 - My laptop is an Intel P-IV, 2.6 gig -1gig RAM / 60 gig hd. It is very sufficient to perform
 - I do record and edit with this computer

Computer Music Programs

- Adobe Audition 1.0. (used to be Cool Edit Pro)
 - I Use this program for all my recording and editing
 - This program runs about \$299.00. If you had Cool Edit Pro, you can get the upgrade for \$ 99.00.
- WinAmp version 5.+ with Pacemaker v1.32
 - This is good for playback - easy to use, has a playlist
 - This program also offers an equalizer and pitch & speed controls
 - WinAmp Is shareware and is free on the internet – Pacemaker requires a payment of \$ 9.90.
- Windows Media Player
 - This is also good for playback, easy to use, has a playlist
 - Included with all Windows operating systems.
 - No Pitch or Speed Control

Music Management

- There are several very good “Music Management” programs available from our S/D suppliers and also from a number of callers who are or have connections with programmers
- They all have solid merit and serve specific purposes. It just depends on what you want the program to do for you and how much you want to invest in this process.
- Here are the four most popular

Digital Music Magician

Add Song Update Data Lookup Playlists Break Timer Backups Settings Program Lists & Definitions Cue Sheets Instructions Hot Keys Window About...

Library

[TITLE]

A 1061

A Love Song [I Want T

A Ragtime Call

'A' You're Adorable

Achy Breaky Heart (W

After The Lovin'

Ain't Misbehavin'

Alabama Jubilee

All I Need To Know

All My Loving

All Of Me

All Wrapped Up In You

Almost Like Being In L

Alpine Hoedown

Amarillo By Morning (T

American Pie

Angels Among Us

Another Sleepless Nig

Any Old Time (Lq)

Filter Song Type

Show All Types Sho

Show SC Sho

Show HD Sho

Cue Sheet Viewer

"A" YOU'RE ADORABLE = 1944

Op. & Cl.... SIDES FACE GRAND SQUARE:

A - YOU'RE ADORABLE, B- YOU'RE SO BEAUTIFUL ..

C - YOU'RE A CUTIE FULL OF CHARM ..

D - YOU'RE A DARLING AND E- YOUR EXCITING AND

F - YOU'RE A FEATHER IN MY ARMS (CIRCLE LEFT)

G - YOU LOOK GOOD TO ME .. H- YOU'RE SO HEAVENLY

LEFT ALLEMANDE .. SWING YOUR OWN AND PROMENADE

IT'S FUN TO WANDER THROUGH, THE ALPHABET WITH YOU

TO TELL YOU WHAT YOU MEAN TO ME ..

FIGURE...

FOUR LADIES CHAIN .. 3/4 ROUND .. WILL DO ..

HEADS PROMENADE.. 3/4 ROUND.. SIDES SQUARE THRU

3/4 ROUND YOU DO .. MEET THE OUTSIDE TWO & CIRCLE 4

Print

'A' You're Adorable - Instrumental

Rew Play FF

Pause Stop Fade

Volume

Pitch Tempo

-12% 0 +12% -25% 0 +25%

BPM 125 Set BPM

Looping Control

Open 1st 2nd Break 3rd 4th Close

Loop Start: Loop End: Use Loop

00:34.000 03:24.000 Exit Looping

Tip Timer: 5 mins. Hide EQ

Elapsed Use EQ

Remaining

EQ

12db 0 db 12db

reset

60 170 310 600 1k 3k 6k 12k 14k 16k

The screenshot shows the Dave Wilson's sqmp3 Gold software interface. The top window is a Microsoft Internet Explorer browser displaying the website <http://sqmp3.com/manual/Sqmp3Gold.htm>. The software interface is divided into several panels:

- Current Song:** Eurovision 2001 20 Estonia.mp3
- Cued Patter:** Eurovision 2001 20 Estonia.mp3
- Cued Singer:** Build Me Up Buttercup.mp3
- Current Favorite File:** brannenburg.ft
- Effects:** BPM 124.49, Volume, Tempo = 0, Samplerate = 44100Hz, Pitch Scaling = 0 semitones, Bass (6), Mid (0), Treble (10), Default.
- Favorite mp3 Folders:** G:_all music, G:_SQmp3, G:_all music\japan and DW, G:_all music\new square dance sir, G:_all music\sing-a-long, G:_all music\concert mp3, G:_all music\music new, G:_all music\new perform, G:_all music\bond.
- Clock/Timer:** 3:04:10 AM, 9:14
- Counter:** 01:48 of 02:56, Loop at: 01:48
- File Info:** Stereo, Bits per Sample: 16, Freq: 44100, Avg. Bytes/Sec.: 176400
- Favorite Patter:** Sorted list of mp3 files including LBJ - GMP 0504.mp3, Eurovision 2001 20 Estonia.mp3, Dance_X_B.mp3, soul man.mp3, venus.mp3, 1 800 - SIR 0504.mp3, 10 20 Hoedown - HH 0648.mp3, 10 20 Hoedown - HH 648a.mp3, Alabama Jubilee.mp3, American Medley.mp3, An American Trilogy.mp3.
- Favorite Singers:** Sorted list of mp3 files including venus.mp3, Build Me Up Buttercup dw sq.mp3, Build Me Up Buttercup.mp3, DW At This Moment.mp3, DW more.mp3, 16 Ton.mp3, 10 20 Hoedown - HH 0648.mp3, 10 20 Hoedown - HH 648a.mp3, A LITTLE BIT MORE A1014.mp3, Amarillo By Morning.mp3, AMIE AR105.mp3.
- mp3Files: 47:** List of mp3 files including all I ask of you patter.mp3, and i love you so.mp3, bass.mp3, boys of glass.mp3, Boyzone - No Matter What tm 14.mp3, Boyzone - No Matter What tm 30.mp3, Boyzone - No Matter What tm 8.mp3, Boyzone - No Matter What.mp3, Dance_X_B.mp3, denmark eurovision - never ever gonn, DW At This Moment.mp3.

The screenshot displays a Microsoft Internet Explorer browser window with the address http://www.ceder.net/csds/screen_shots/csds_frmusiceditdatabase.php4. The page title is "CSDS Sample Screen: Edit Music Database". A navigation bar includes links for "Music Player", "Edit Music Database", "Call From Screen", "Edit Sequence", and "Find Getout".

An "Edit Item" dialog box is open, showing details for a music file:

- File: C:\SQDATA\MP3\Rock'nInRosalie'sBoat-Chaparral-202.mp3
- Title: Rock'n In Rosalie's Boat
- Label: Chaparral
- Label #: 202
- Rating: 5 = Excellent
- Chaparral RECORDS logo
- Flags: Singing call (S)
- Artist(s): Jerry Hoag
- Date added: 21-Feb-00

The Winamp 5.03 music player window is also visible, playing "Rock'n In Rosalie's Boat" by Chaparral 202. The player shows a progress bar, playback controls (Rewind, Play, Pause, Fade out, Loop reset), and settings for tempo (130.4 bpm) and volume (100%).

SqView - Basic

File Change Level Tools Options Programs Help

1 - Music 2 - Lyrics 3 - List 4 - Definitions 5 - Start 6 - Figure 7 - Home 8 - Getout 9 - Sing 0 - Odd +- Notes

Current: Welcome to SqView

Level: [Slider]

Loop: Loop Start 0:00 ✓
Autoloop: Stop 0:00 ✓
Keychange: Start 0.00 ✓

Counter: 0:00 of 0:00

Properties: Tempo 0 Pitch 0 Speed 0 Volume 100

Timer: 0:00

Time: 35:54 Total: 11

Time: 60:17 Total: 15

C:\Dance Music\Hoedowns\Disk # 1

Label	Titel	Le...	Type
05	A-Team-Looped	3:21	MP3
06	Are You Teasing Me-Looped	3:27	MP3
10	Don't Blame It All On Me-Looped	3:03	MP3
01	Easy Rhythm-Looped	3:13	MP3
03	Four Leaf Clover-Looped	3:04	MP3
02	Gonna Miss Me-Looped	3:08	MP3
04	Ho-Down-Looped	3:21	MP3
07	Josh-Looped	3:21	MP3
09	Picker Patter-Looped	3:12	MP3
11	Scott's Hoedown-Looped	3:23	MP3
08	Smooth & Easy-Looped	3:21	MP3

C:\Dance Music\Singing Calls\MD # 02

Label	Titel	Le...
01	Up A Lazy River RR-240	4:03
02	Oh Lonesome Me RR-183	3:56
03	Summertime RR-126	4:02
04	I'll See You In My Dreams BS-2441	3:59
05	Baby Your Baby GMP-926	4:07
06	Secret Love RB-3046	3:56
07	Your Love Amazes me GMP-905	4:09
08	Five O'Clock World RR-236	3:57
09	I Found A New Baby BS-2263	4:05
10	The Colours Of The Wind HH-5198	4:03
11	Long Train Running RYL-228	3:55
12	Irresistible You GMP-916	4:00
13	Western Skies RR-231	4:03
14	My Heart Skips a Beat RYL-311	3:57

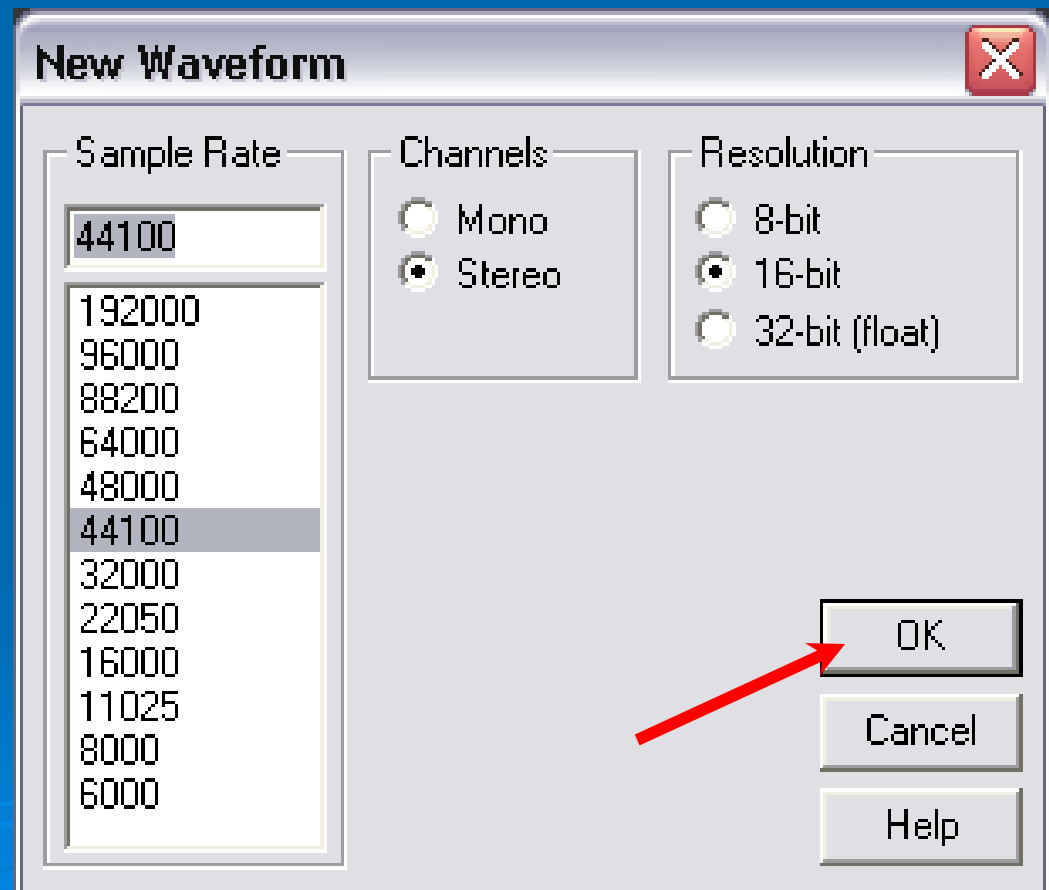
Cards: Couples 10 Letter A CPU - % 0

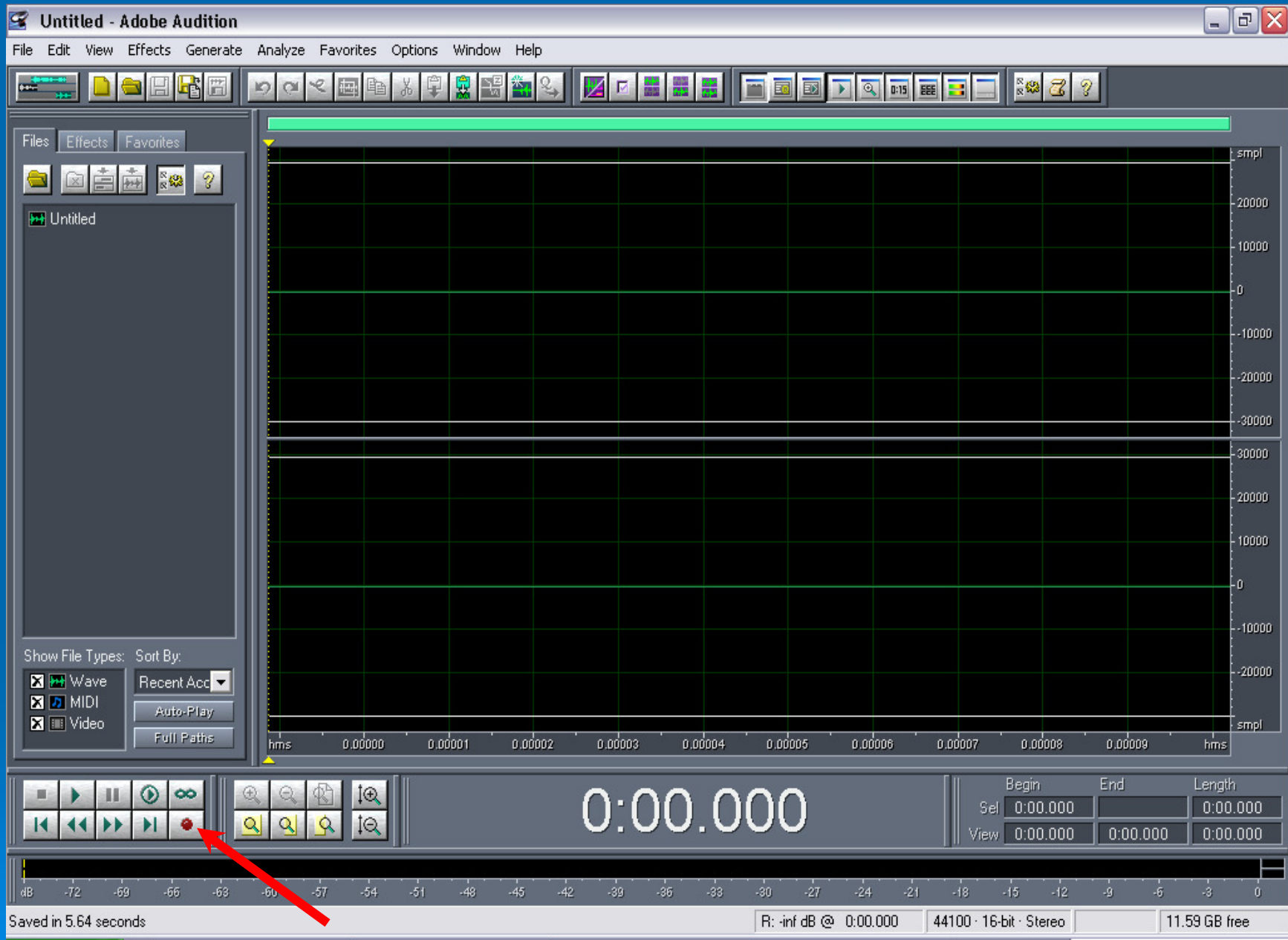
Tempo 0 Music is stopped Loop is not active

How to Record with Audio Audition

This screen is the default New Files Screen

- 44100 is the standard CD Quality Sample Rate
- Stereo or Mono is your option. File size is bigger in stereo
- 16 Bit Resolution is the Professional CD Standard





Save Recording as an uncompressed .wav file

The screenshot shows the Adobe Audition interface for a file named "Stawberry Patch-16 Bit Stereo - Original.wav". The main workspace displays a multi-track waveform with green audio signals. A red arrow points to the "Save As" icon in the top toolbar. The interface includes a menu bar (File, Edit, View, Effects, Generate, Analyze, Favorites, Options, Window, Help), a toolbar, a file browser on the left, a central waveform display, a transport control bar at the bottom, and a status bar at the very bottom.

Transport controls show a time display of 0:00.000. The status bar at the bottom indicates the file is "Opened in 0.53 seconds" and provides technical details: "R: -13.9dB @ 1:44.126 44100 · 16-bit · Stereo 38.48 MB 19.69 GB free".

Editing The Music Track

There are four basic adjustments you may wish to make:

- Volume
- Click/Pop & Hiss Removal
- Tempo and/or Pitch
- Trim

Volume Adjustment

The screenshot displays the Adobe Audition interface with the 'Effects' menu open. A red arrow points to the 'Amplify...' option within the 'Amplitude' submenu. The main window shows a stereo waveform with a time axis from 0:10 to 3:30 and a volume axis from -30000 to 30000. The status bar at the bottom indicates the current volume level is -4dB at 0:11.504.

Stawberry Patch-16 Bit Stereo - Original.wav - Adobe Audition

File Edit View **Effects** Generate Analyze Favorites Options Window Help

- Invert
- Reverse
- Silence
- Amplitude
 - Amplify...
 - Binaural Auto-Panner...
 - Channel Mixer...
 - Dynamics Processing...
 - Envelope...
 - Hard Limiting...
 - Normalize...
 - Pan/Expand...
 - Stereo Field Rotate...
- Delay Effects
- Filters
- Noise Reduction
- Special
- Time/Pitch
- Enable DirectX Effects
- Refresh Effects List

Files Effects

Show File Types: Sort By: Recent Acc Auto-Play Full Paths

Wave MIDI Video

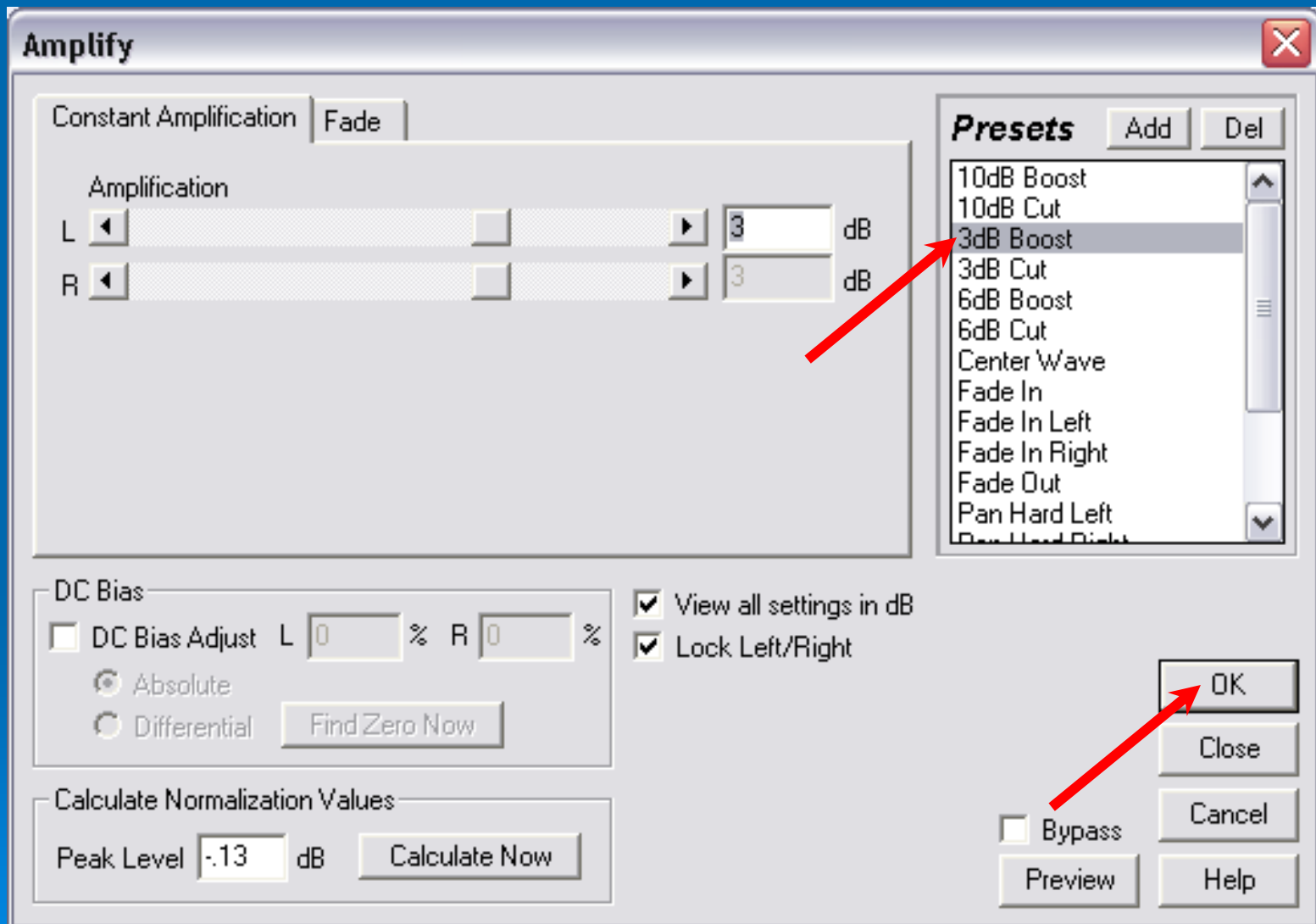
0:00.000

	Begin	End	Length
Sel	0:00.000	3:43.399	3:43.399
View	0:00.000	3:43.399	3:43.399

dB -72 -69 -66 -63 -60 -57 -54 -51 -48 -45 -42 -38 -36 -33 -30 -27 -24 -21 -18 -15 -12 -8 -6 -3 0

Opened in 5.66 seconds L: -4dB @ 0:11.504 44100 · 16-bit · Stereo 38.48 MB 11.67 GB free

Volume Adjustment



Clicks and Pops

The screenshot displays the Adobe Audition interface with the 'Effects' menu open. The 'Click/Pop Eliminator' option is highlighted, and a red arrow points to it. Another red arrow points to the 'Effects' menu itself. The main window shows a waveform of a 16-bit stereo audio file with a time scale from 0:10 to 3:30. The bottom status bar shows the file is opened in 5.66 seconds, with a sample rate of 44100 Hz, 16-bit stereo, and 38.48 MB of data.

Stawberry Patch-16 Bit Stereo - Original.wav - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Invert
Reverse
Silence

Amplitude
Delay Effects
Filters

Stawberry P
Noise Reduction
Special
Time/Pitch

Enable DirectX Effects
Refresh Effects List

Click/Pop Eliminator
Clip Restoration...
Hiss Reduction...
Noise Reduction...

0:00.000

	Begin	End	Length
Sel	0:00.000	3:43.399	3:43.399
View	0:00.000	3:43.399	3:43.399

dB -72 -69 -66 -63 -60 -57 -54 -51 -48 -45 -42 -39 -36 -33 -30 -27 -24 -21 -18 -15 -12 -9 -6 -3 0

Opened in 5.66 seconds L: -inf dB @ 0:01.601 44100 · 16-bit · Stereo 38.48 MB 11.67 GB free

Select the Correct Preset

Click/Pop Eliminator

Detection

Thr

Legend: Detect (green), Reject (red)

Auto Find All Levels

Sensitivity: 14

Discrimination: 20

Find Threshold Levels Only

	Max Threshold	Avg Threshold	Min Threshold	Detect	Reject
	-15 dB	-40 dB	-65 dB	35	45
				25	30
				12	15

Second Level Verification

Pulse Train Verification

Link Channels

Smooth Light Crackle

Detect Big Pops: 45

Multiple Passes: 8

Correction

FFT Size: 32

Pop Oversamples: 12 samples

Run Size: 14 samples

Auto

Fill Single Click Now

Presets

- Constant Hiss and Crackle
- Hiss + Lots of Clicks
- Medium Amplitude Audio
- Old Record - Quiet Audio**

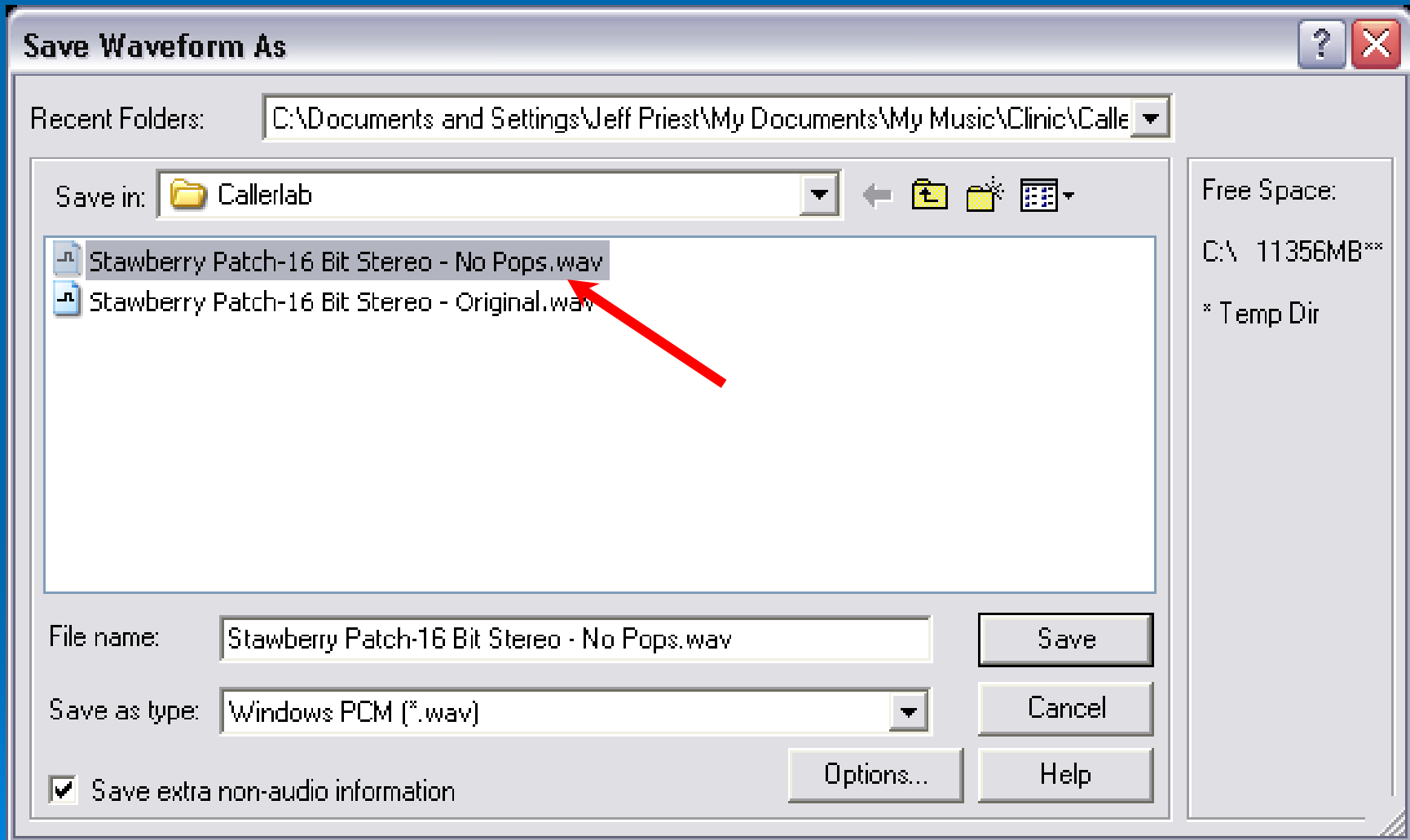
Lower Sensitivity finds more clicks
Lower Discrimination fixes more clicks

Lower Detection to find more clicks.
Lower Rejection to fix more clicks .
Lower Big Pops level to find more.
Detection levels range from 6 to 60
Rejection levels range from 1 to 100

Corrected: 89
Rejected: 72

OK
Close
Cancel
Help

Resave “with a new name” .wav



Background Hiss

The screenshot displays the Adobe Audition interface. The main window shows a stereo waveform with a significant amount of background hiss. The 'Effects' menu is open, and the 'Hiss Reduction' option is highlighted. A red arrow points from the top-left corner of the window to the 'Effects' menu, and another red arrow points from the 'Hiss Reduction' option to the waveform. The interface includes a menu bar (File, Edit, View, Effects, Generate, Analyze, Favorites, Options, Window, Help), a toolbar, a file browser on the left, and a transport control bar at the bottom. The waveform is displayed in a green color on a black background. The time axis at the bottom shows the current position at 0:00.000. The status bar at the bottom indicates the file is 'L: -8.4dB @ 0:03.640' with a sample rate of '44100 · 16-bit · Stereo' and a file size of '38.48 MB'.

Stawberry Patch-16 Bit Stereo - No Pops.wav - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Invert
Reverse
Silence

Amplitude
Delay Effects
Filters
Noise Reduction
Special
Time/Pitch

Click/Pop Eliminator...
Clip Restoration...
Hiss Reduction...
Noise Reduction...

Show File Types: Sort By:
Wave
MIDI
Video

Recent Acc
Auto-Play
Full Paths

0:00.000

	Begin	End	Length
Sel	0:00.000		0:00.000
View	0:00.000	3:43.399	3:43.399

Opened in 0.47 seconds

L: -8.4dB @ 0:03.640 44100 · 16-bit · Stereo 38.48 MB 11.59 GB free

Choose The Correct Preset

Hiss Reduction

dB

Hz 5000 10000 15000 20000

Viewing Left Right

Get Noise Floor 30 drag points Reset: Hi Med Low

Noise Floor Adjust

Lower Floor Higher Floor 8 dB

Presets Add Del Preview

- High Hiss Reduction
- Light Hiss Reduction
- Old Record - 1
- Standard Hiss Reduction

Bypass

FFT Size 6000 points

Precision Factor 7

Transition Width 9 dB

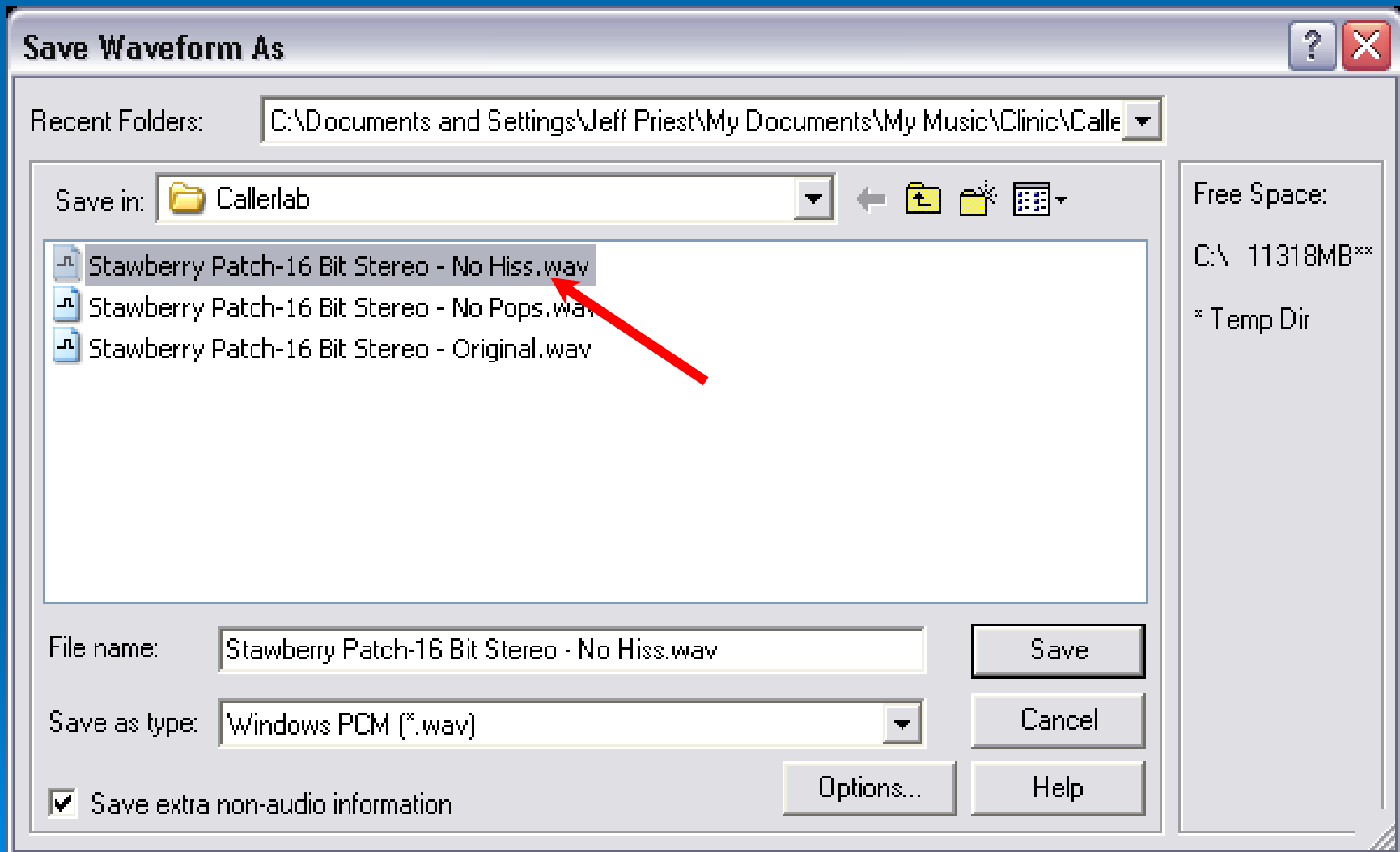
Spectral Decay Rate 75%

Reduce Hiss by 40 dB

Remove Hiss
 Keep Only Hiss

OK Close Cancel Help

Resave “with a new name” .wav



Change Tempo NOT Pitch

The screenshot shows the Adobe Audition interface with the 'Effects' menu open. The 'Time/Pitch' submenu is also open, highlighting the 'Stretch...' option. A red arrow points from the title 'Change Tempo NOT Pitch' to the 'Stretch...' option. Another red arrow points to the 'Time/Pitch' submenu. The main window displays a waveform of a 16-bit stereo audio file. The 'Cue List' panel is visible on the left, and the 'Transport' and 'Meters' panels are at the bottom. The transport panel shows a time display of 0:22.427. The meters panel shows a level of -7.7dB @ 0:03.349. The status bar at the bottom indicates 'Stopped' and provides technical details: 'R: -7.7dB @ 0:03.349', '44100 · 16-bit · Stereo', '38.48 MB', and '17.41 GB free'.

	Begin	End	Length
Sel	0:22.427	0:42.815	0:20.388
View	0:00.000	3:43.399	3:43.399

Stawberry Patch-16 Bit Stereo - Original.wav* - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Files Effects Favorites

Stawberry Patch-16 Bit Ster...

Cue List

Label	Begin

Edit Cue Info Auto-Play Add Del Merge Batch

Show File Types: Sort By: Recent Acc Auto-Play Full Paths

- Wave
- MIDI
- Video

Stretch

Constant Stretch Gliding Stretch

Stretch % Slower Tempo Ratio Length Transpose

90 22.653 none

Precision

Low Precision Medium Precision High Precision

Stretching Mode

Time Stretch (preserves pitch) Pitch Shift (preserves tempo) Resample (preserves neither)

Pitch and Time settings

Splicing Frequency 52 Hz

Overlapping 34 %

Choose appropriate defaults

Presets

- Cutting Power
- Double Speed
- Fast Talker
- Helium
- Lower Pitch
- Raise Pitch
- Slow Down
- Speed Up

OK Close Cancel Preview Help

0:22.427

	Begin	End	Length
Sel	0:22.427	0:42.815	0:20.388
View	0:00.000	3:43.399	3:43.399

Stopped L: -90.3dB @ 0.00.145 44100 · 16-bit · Stereo 38.48 MB 17.41 GB free

Change Pitch NOT Tempo

The screenshot shows the Adobe Audition interface with the 'Effects' menu open. The 'Time/Pitch' sub-menu is expanded, showing options: 'Doppler Shifter...', 'Pitch Bender...', and 'Stretch...'. A red arrow points from the title 'Change Pitch NOT Tempo' to the 'Effects' menu. Another red arrow points from the 'Time/Pitch' sub-menu to the 'Pitch Bender...' option. The main window displays a stereo audio waveform with a selected region from 0:22.427 to 0:42.815. The bottom status bar shows the current time as 0:22.427 and various audio parameters.

Stawberry Patch-16 Bit Stereo - Original.wav* - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Invert
Reverse
Silence

Amplitude
Delay Effects
Filters
Noise Reduction
Special
Time/Pitch
Enable DirectX Effects
Refresh Effects List

Doppler Shifter...
Pitch Bender...
Stretch...

Cue List

Label	Begin

Show File Types: Sort By: Recent Acc

Wave MIDI Video

Auto-Play Full Paths

0:22.427

	Begin	End	Length
Sel	0:22.427	0:42.815	0:20.388
View	0:00.000	3:43.399	3:43.399

Stopped R: -7.7dB @ 0:03.349 44100 · 16-bit · Stereo 38.48 MB 17.41 GB free

Stawberry Patch-16 Bit Stereo - Original.wav* - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Files Effects Favorites

Stawberry Patch-16 Bit Ster...

Cue List

Label	Begin

Show File Types: Sort By: Recent Acc

- Wave
- MIDI
- Video

Auto-Play Full Paths

Stretch

Constant Stretch Gliding Stretch

Stretch % Lower Pitch Ratio Length Transpose

110 20.388 none

Precision

Low Precision Medium Precision High Precision

Stretching Mode

Time Stretch (preserves pitch)
 Pitch Shift (preserves tempo)
 Resample (preserves neither)

Pitch and Time settings

Splicing Frequency 52 Hz
 Overlapping 34 %
 Choose appropriate defaults

Presets

- Cutting Power
- Double Speed
- Fast Talker
- Helium
- Lower Pitch
- Raise Pitch
- Slow Down
- Speed Up

OK Close Cancel Preview Help

0:22.427

	Begin	End	Length
Sel	0:22.427	0:42.815	0:20.388
View	0:00.000	3:43.399	3:43.399

Stopped R: -13.2dB @ 0:11.213 44100 · 16-bit · Stereo 38.48 MB 17.41 GB free

Trimming The Tune

The screenshot shows the Adobe Audition interface with a waveform of a stereo audio file. A selection box is drawn over the beginning of the waveform, and a context menu is open over it. The menu options are: Silence..., DTMF Signals..., Noise..., and Tones... Two red arrows point to the 'Generate' menu and the 'Silence...' option. The waveform is displayed in four channels, with a vertical scale from -30000 to 20000 samples. The time axis at the bottom shows hours, minutes, and seconds (hms).

Stawberry Patch-16 Bit Stereo - Original.wav - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Silence...
DTMF Signals...
Noise...
Tones...

Files Effects Favorites

Stawberry Patch-16 Bit Ster...

Show File Types: Sort By: Recent Acc
 Wave
 MIDI
 Video
Auto-Play
Full Paths

0:00.000

	Begin	End	Length
Sel	0:00.000	0:02.912	0:02.912
View	0:00.000	3:43.399	3:43.399

dB -72 -68 -66 -63 -60 -57 -54 -51 -48 -45 -42 -39 -36 -33 -30 -27 -24 -21 -18 -15 -12 -9 -6 -3 0

Opened in 5.19 seconds L: -inf dB @ 0:00.436 44100 · 16-bit · Stereo 38.48 MB 11.55 GB free

Stawberry Patch-16 Bit Stereo - Original.wav - Adobe Audition

File Edit View Effects Generate Analyze Favorites Options Window Help

Files Effects Favorites

Stawberry Patch-16 Bit Ster...

Show File Types: Sort By: Recent Acc Auto-Play Full Paths

Wave MIDI Video

Generate Silence

Silence Time 3 seconds

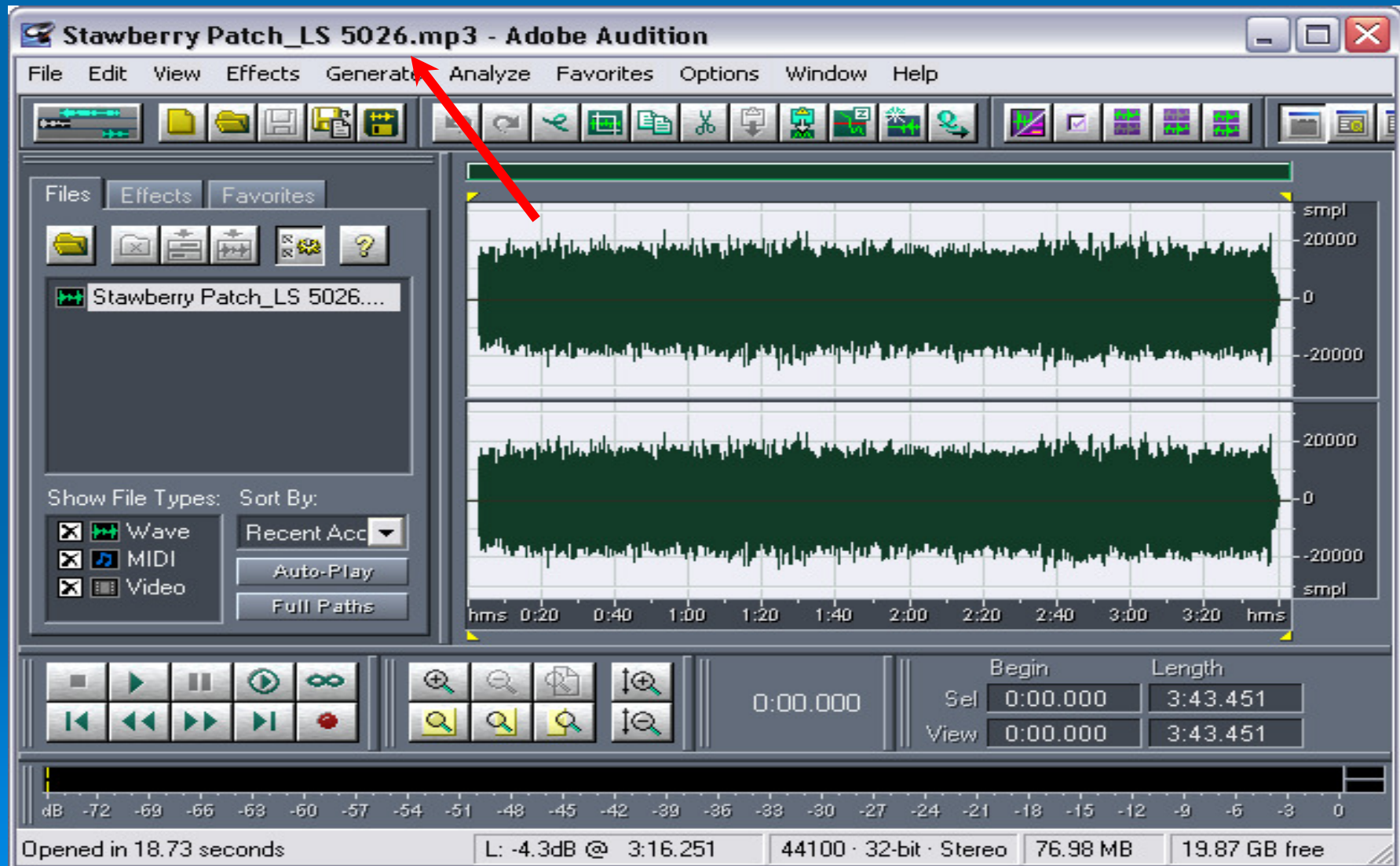
OK Cancel Help

0:00.000

	Begin	End	Length
Sel	0:00.000	0:02.912	0:02.912
View	0:00.000	3:43.399	3:43.399

Opened in 5.19 seconds R: -3.4dB @ 0:21.699 44100 - 16-bit - Stereo 38.48 MB 11.55 GB free

Happy with the file? Save it as an MP3 or WMA



What's Next?

- Delete or Backup the .wav Files and move the MP3 file to a final directory

**Finished ..
Record the next tune!**