Sound representation in computer systems Tutorial 4: Sample rate

Open Audacity by going to: Start > Multimedia > Audacity

Sample Rate" choose a value

Open a sound file, find one in:

L:\ICT\Recources\Sound

Click on the Edit Menu > Preferences In the window that opens scroll to the "Quality" section **Audacity Preferences** Sampling Devices Playback Default Sample Rate: 44100 Hz Recording Default Sample Format: Ouality Interface Tracks Import / Expor 44100 Hz Projects Libraries Other... In the right pane next to "Default

ample Rate Converter: High-quality Sinc Interpolation

Dither: Shaped

Experiment with different sampling rates – listen to the file – has the quality changed? Is it better or worse?

Export the file and look at how the file size changes for different sampling rates.

How is this effected?

Why do you think this is?

Discuss how sampling rate effects the quality of the sound file and its size. What conclusions do you come to – what considerations would someone needing to use a sound file need to think about?

Answer in your booklet

Cancel