SPEECH COMMUNICATION 6.541J-24.968J-HST710J Spring 2004

Lab 1 Commands

Assigned: 02/24/03

The sentences are saved in files **SEENPETE.WAV** (male) and **SEENPETEHH.WAV** (female) under each group's directory.

SECTION	COMMAND
(a)	lspecto filename (no extension needed) see linux intro. sheet to print waveforms: SEENPETE.PS and SEENPETEHH.PS
(b) to examine waveforms	xkl filename
(b)(ii)	 to open a file for Postscript output, type 'g' to save a spectrum to the file, type '#' (you can save more than one to a single file) to close the file for printing, type 'g' to change spectrum parameters, type 'C' (must be capital C) and choose appropriate parameter from dialogue box: 'd' for length of DFT window 'e' for length of LPC analysis window
(b)(ii)(1) (b)(ii)(2) (b)(ii)(3) interval	Type 'S' (must be capital S) Type 'd' (remember to change DFT window length first) Type 'a' and enter start time and end time of desired
(b)(ii)(4)	(in ms) when prompted Type 'l' (lowercase L) (remember to change LPL DFT window lengths first)
(c)	Type 'r' and choose file from dialogue box when prompted

LINUX INTRODUCTION

to login	type username and password at text prompt
to start xkl	 type startx click left mouse button on "xterm" button cd 6.541/groupX where X is your group letter xkl <i>filename.wav</i>
to logout	 click left mouse button on "Start" select "Exit Fvwm 95" and "Yes, Really Quit"
on-line help	man (or man command)
show all files show file size and date search down directory tree for file show current directory	ls ls -l ls <i>name.ext</i> pwd
change directories change to top directory	cd name cd ~/
delete a file save file under new name move file to new directory	rm name.ext; mv name.ext name2.ext mv name.ext new path/name.ext
printing postscript	lpr filename.ps

XKL COMMANDS

XKL COMMAND LINE ARGUMENTS

Required arguments for XKL: none

Optional arguments (separated by spaces):

-h Usage (help) message

COMMANDS

?	help
q	quit the program (with opportunity to cancel)
р	Play a selected waveform (e)
Р	Play the entire waveform
Spectral Analysis:	
d	DFT magnitude spectrum is now the default
\$	Spectrogram-like spectrum is now the default
S	Spectrogram-like spectrum + DFT the default
c	Critical-Band spectrum is now the default
j	Critical-Band spectrum + DFT the default
Т	Critical-Band spectrum, compute slope of spect above 1
kHz	
1	Linear-Prediction spectrum + DFT is now the default
a	Average DFT magnitude spectra over selected time interval
A	Average DFT magnitude spectra at selected times
k	Spectral Average; over -kn/2 to +kn/2
С	Change a particular analysis parameter value
Ν	Output F & BW's of current analysis filters
V	Output listing of spectrum values within window
Hardcopy Commands:	
g	Open/close a 4 spectra/page Postscript file
h	Open/close a 1 spectrum/page Postscript file
*	Save window to Postscript file (1 per page)
#	Save spectrum to Postscript file (4 spectra a page)

COMMANDS

Start, End markers:	(used for play command)
W	Set Start to current cursor position
e	End marker set to current cursor position
	START, END markers moved to buffer endpoints
** W	(to left of e) instead of s, because s was already taken
Cursor Control:	
t	move marker to time t
b,f	Move Backward/Forward by 10 ms
B,F	Move Backward/Forward by 50 ms
1,2	Set time to Start/End marker
Multi-file handling:	
r	Read another waveform
V	Replace current file with another waveform
+ -	Increment/Decrement waveform counter,
	look at next/previous waveform
n	Select from a menu of loaded waveforms to become the
	current waveform (if only two waveforms are loaded, the
	noncurrent waveform is automatically made current)
Arrow commands:	(waveform windows only)
up	Zoom in selected window (divide duration by 2)
down	Zoom out selected window (multiply duration by 2)
left	Step selected window (with cursor) leftward by length of
window 1	
right	Step selected window (with cursor) rightward by length
Mouse buttons:	
Index finger	click to move cursor to that point and print out x,y values
Middle button	click to play (same as P command)
Ring finger	bring all windows for this waveform to front
Window movement, resizing	g.
	Use normal mouse functions, grabbing frame to move or
	'Change the size' option in the window's corner menu box.
Spectrogram Display:	(in command line to disable spectrogram)
i	Display current wavefile as spectrogram
K	Recalculate spectrogram
u	Set length of spectrogram
,	Lighten spectrogram
	Darken spectrogram