

```
writeInfoLine: "Getting F1, F2, and F3 at 5% intervals for each syllable..."
```

```
# Specify the directory containing the sound and Textgrid files
```

```
directory$ = "/Volumes/NO NAME/Dissertation/Final 1-20 Audio Files and Text Grids/"
```

```
# Create the output file and write the first line
```

```
outputPath$ = "/Volumes/NO NAME/Dissertation/Final 1-20 Audio Files and Text  
Grids/Formants05Percent.csv"
```

```
writeFileLine: "'outputPath$'", "file, vowel, F1_00, F1_05, F1_10, F1_15, F1_20, F1_25,  
F1_30, F1_35, F1_40, F1_45, F1_50, F1_55, F1_60, F1_65, F1_70, F1_75, F1_80,  
F1_85, F1_90, F1_95, F1_100, F2_00, F2_05, F2_10, F2_15, F2_20, F2_25, F2_30,  
F2_35, F2_40, F2_45, F2_50, F2_55, F2_60, F2_65, F2_70, F2_75, F2_80, F2_85,  
F2_90, F2_95, F2_100, F3_00, F3_05, F3_10, F3_15, F3_20, F3_25, F3_30, F3_35,  
F3_40, F3_45, F3_50, F3_55, F3_60, F3_65, F3_70, F3_75, F3_80, F3_85, F3_90,  
F3_95, F3_100"
```

```
# Make a list of all of the sound and Textgrid files in the directory and put the number of  
filenames
```

```
# into the variable "number_files"
```

```
Create Strings as file list... list 'directory$'*.wav
```

```
number_files = Get number of strings
```

```
# Set up a "for" loop to iterate once for every file in the list
```

```

for j from 1 to number_files
select Strings list
current_token$ = Get string... 'j'
Read from file... 'directory$"current_token$'

# Make object_name$ variable that will equal the file name minus the extension

object_name$ = selected$ ("Sound")

# Now we do a formant analysis on the current sound file

select Sound 'object_name$'
To Formant (burg)... 0.0025 5 5500 0.025 50

Read from file... 'directory$"object_name$'.TextGrid

select TextGrid 'object_name$'
number_of_intervals = Get number of intervals... 1
for b from 1 to number_of_intervals
    select TextGrid 'object_name$'
    interval_label$ = Get label of interval... 1 'b'

if interval_label$ = "AH1"
    begin_vowel = Get starting point... 1 'b'
    end_vowel = Get end point... 1 'b'
    five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)

```

ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear

f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear

f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear

f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear

f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",  
    ...f1_45, ",",  
    ...f1_50, ",",  
    ...f1_55, ",",  
    ...f1_60, ",",  
    ...f1_65, ",",  
    ...f1_70, ",",  
    ...f1_75, ",",  
    ...f1_80, ",",  
    ...f1_85, ",",  
    ...f1_90, ",",
```

...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",

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...f3_20, "",  
...f3_25, "",  
...f3_30, "",  
...f3_35, "",  
...f3_40, "",  
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "UW1"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```


thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear

f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear

f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",
    ...object_name$, ",",
    ...interval_label$, ",",
    ...f1_00, ",",
    ...f1_05, ",",
    ...f1_10, ",",
    ...f1_15, ",",
    ...f1_20, ",",
    ...f1_25, ",",
    ...f1_30, ",",
    ...f1_35, ",",
    ...f1_40, ",",
    ...f1_45, ",",
    ...f1_50, ",",
    ...f1_55, ",",
    ...f1_60, ",",
    ...f1_65, ",",
    ...f1_70, ",",
    ...f1_75, ",",
    ...f1_80, ",",
    ...f1_85, ",",
    ...f1_90, ",",
    ...f1_95, ",",
    ...f1_100, ",",
    ...f2_00, ",",
    ...f2_05, ",",
    ...f2_10, ",",
```

...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",

```
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "IY1"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```

```
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
```

```
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
```

```
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
```

```
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
```

```
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
```

sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear

f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear

f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
                ...object_name$, ",",  
                ...interval_label$, ",",  
                ...f1_00, ",",  
                ...f1_05, ",",
```

...f1_10, "",
...f1_15, "",
...f1_20, "",
...f1_25, "",
...f1_30, "",
...f1_35, "",
...f1_40, "",
...f1_45, "",
...f1_50, "",
...f1_55, "",
...f1_60, "",
...f1_65, "",
...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",

...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",
...f3_45, "",
...f3_50, "",
...f3_55, "",
...f3_60, "",
...f3_65, "",

```
...f3_70, ",",  
...f3_75, ",",  
...f3_80, ",",  
...f3_85, ",",  
...f3_90, ",",  
...f3_95, ",",  
...f3_100
```

endif

```
if interval_label$ = "AO1"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```

```
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
```

```
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
```

```
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
```

```
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
```

```
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
```

```
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
```

```
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
```

```
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
```

```
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
```

```
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
```

$eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)$

$ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)$

$ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)$

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear

f1_05 = Get value at time... 1 'five_percent' Hertz Linear

f1_10 = Get value at time... 1 'ten_percent' Hertz Linear

f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear

f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear

f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear

f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear

f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear

f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear

f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear

f1_50 = Get value at time... 1 'midpoint' Hertz Linear

f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear

f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear

f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear

f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear

f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear

f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear

f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear

f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear

f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear

f1_100 = Get value at time... 1 'end_vowel' Hertz Linear

f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear

f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear

f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",
```

...f1_35, "",
...f1_40, "",
...f1_45, "",
...f1_50, "",
...f1_55, "",
...f1_60, "",
...f1_65, "",
...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",

...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",
...f3_45, "",
...f3_50, "",
...f3_55, "",
...f3_60, "",
...f3_65, "",
...f3_70, "",
...f3_75, "",
...f3_80, "",
...f3_85, "",
...f3_90, "",

```
...f3_95, ",",  
...f3_100
```

```
endif
```

```
if interval_label$ = "AY1"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```

```
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
```

```
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
```

```
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
```

```
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
```

```
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
```

```
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
```

```
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
```

```
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
```

```
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
```

```
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
```

```
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
```

```
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
```

```
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)
```

```
select Formant 'object_name$'
```

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear

f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear

f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",  
    ...f1_45, ",",  
    ...f1_50, ",",  
    ...f1_55, ",",
```

...f1_60, "",
...f1_65, "",
...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",

```
...f2_90, "",  
...f2_95, "",  
...f2_100, "",  
...f3_00, "",  
...f3_05, "",  
...f3_10, "",  
...f3_15, "",  
...f3_20, "",  
...f3_25, "",  
...f3_30, "",  
...f3_35, "",  
...f3_40, "",  
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

```
endif
```

```
if interval_label$ = "IH1"
```

```
begin_vowel = Get starting point... 1 'b'
```

begin_vowel = Get starting point... 1 'b'
end_vowel = Get end point... 1 'b'
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear

f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear

f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear

f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",  
    ...f1_45, ",",  
    ...f1_50, ",",  
    ...f1_55, ",",  
    ...f1_60, ",",  
    ...f1_65, ",",  
    ...f1_70, ",",  
    ...f1_75, ",",
```

...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",

```
...f3_05, "",  
...f3_10, "",  
...f3_15, "",  
...f3_20, "",  
...f3_25, "",  
...f3_30, "",  
...f3_35, "",  
...f3_40, "",  
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "EH1"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear

f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear

f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",  
    ...f1_45, ",",  
    ...f1_50, ",",  
    ...f1_55, ",",  
    ...f1_60, ",",  
    ...f1_65, ",",  
    ...f1_70, ",",  
    ...f1_75, ",",  
    ...f1_80, ",",  
    ...f1_85, ",",  
    ...f1_90, ",",  
    ...f1_95, ",",  
    ...f1_100, ",",
```

...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",

```
...f3_30, "",  
...f3_35, "",  
...f3_40, "",  
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "AH0"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```

```
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
```

```
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
```

fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear

f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear

f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
                ...object_name$, ",",
```

...interval_label\$, "",
...f1_00, "",
...f1_05, "",
...f1_10, "",
...f1_15, "",
...f1_20, "",
...f1_25, "",
...f1_30, "",
...f1_35, "",
...f1_40, "",
...f1_45, "",
...f1_50, "",
...f1_55, "",
...f1_60, "",
...f1_65, "",
...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",

...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",
...f3_45, "",
...f3_50, "",


```
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

if interval_label\$ = "EY1"

begin_vowel = Get starting point... 1 'b'

end_vowel = Get end point... 1 'b'

five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)

ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)

fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)

twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)

twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)

thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)

thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)

fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)

fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)

midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)

fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)

sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)

sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)

seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear

f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear

f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",
```

...f1_20, "",
...f1_25, "",
...f1_30, "",
...f1_35, "",
...f1_40, "",
...f1_45, "",
...f1_50, "",
...f1_55, "",
...f1_60, "",
...f1_65, "",
...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",

...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",
...f3_45, "",
...f3_50, "",
...f3_55, "",
...f3_60, "",
...f3_65, "",
...f3_70, "",
...f3_75, "",

```
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "IH0"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```

```
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
```

```
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
```

```
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
```

```
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
```

```
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
```

```
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
```

```
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
```

```
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
```

```
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
```

```
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
```

```
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
```

```
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
```

$$\text{ninetyfive_percent} = \text{begin_vowel} + ((\text{end_vowel} - \text{begin_vowel}) * 0.95)$$

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear

f1_05 = Get value at time... 1 'five_percent' Hertz Linear

f1_10 = Get value at time... 1 'ten_percent' Hertz Linear

f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear

f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear

f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear

f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear

f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear

f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear

f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear

f1_50 = Get value at time... 1 'midpoint' Hertz Linear

f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear

f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear

f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear

f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear

f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear

f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear

f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear

f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear

f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear

f1_100 = Get value at time... 1 'end_vowel' Hertz Linear

f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear

f2_05 = Get value at time... 2 'five_percent' Hertz Linear

f2_10 = Get value at time... 2 'ten_percent' Hertz Linear

f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear

f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",
```

...f1_45, "",
...f1_50, "",
...f1_55, "",
...f1_60, "",
...f1_65, "",
...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",

...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",
...f3_45, "",
...f3_50, "",
...f3_55, "",
...f3_60, "",
...f3_65, "",
...f3_70, "",
...f3_75, "",
...f3_80, "",
...f3_85, "",
...f3_90, "",
...f3_95, "",
...f3_100

endif

if interval_label\$ = "ER1"

begin_vowel = Get starting point... 1 'b'

end_vowel = Get end point... 1 'b'

five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)

ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)

fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)

twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)

twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)

thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)

thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)

fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)

fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)

midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)

fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)

sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)

sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)

seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)

seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)

eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)

eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)

ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)

ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear

f1_05 = Get value at time... 1 'five_percent' Hertz Linear

f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear

f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear

f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",  
    ...f1_45, ",",  
    ...f1_50, ",",  
    ...f1_55, ",",  
    ...f1_60, ",",  
    ...f1_65, ",",
```


...f1_70, "",
...f1_75, "",
...f1_80, "",
...f1_85, "",
...f1_90, "",
...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",

```
...f2_100, "",  
...f3_00, "",  
...f3_05, "",  
...f3_10, "",  
...f3_15, "",  
...f3_20, "",  
...f3_25, "",  
...f3_30, "",  
...f3_35, "",  
...f3_40, "",  
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "EY0"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear

f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear
f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear

f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear
f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear

f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear

f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",  
    ...object_name$, ",",  
    ...interval_label$, ",",  
    ...f1_00, ",",  
    ...f1_05, ",",  
    ...f1_10, ",",  
    ...f1_15, ",",  
    ...f1_20, ",",  
    ...f1_25, ",",  
    ...f1_30, ",",  
    ...f1_35, ",",  
    ...f1_40, ",",  
    ...f1_45, ",",  
    ...f1_50, ",",  
    ...f1_55, ",",  
    ...f1_60, ",",  
    ...f1_65, ",",  
    ...f1_70, ",",  
    ...f1_75, ",",  
    ...f1_80, ",",  
    ...f1_85, ",",  
    ...f1_90, ",",
```

...f1_95, "",
...f1_100, "",
...f2_00, "",
...f2_05, "",
...f2_10, "",
...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",

```
...f3_20, "",  
...f3_25, "",  
...f3_30, "",  
...f3_35, "",  
...f3_40, "",  
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

```
if interval_label$ = "IY0"
```

```
begin_vowel = Get starting point... 1 'b'
```

```
end_vowel = Get end point... 1 'b'
```

```
five_percent = begin_vowel + ((end_vowel - begin_vowel)*0.05)
```

```
ten_percent = begin_vowel + ((end_vowel - begin_vowel)*0.10)
```

```
fifteen_percent = begin_vowel + ((end_vowel - begin_vowel)*0.15)
```

```
twenty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.20)
```

```
twentyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.25)
```

```
thirty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.30)
```


thirtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.35)
fourty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.40)
fourtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.45)
midpoint = begin_vowel + ((end_vowel - begin_vowel)/2)
fiftyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.55)
sixty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.60)
sixtyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.65)
seventy_percent = begin_vowel + ((end_vowel - begin_vowel)*0.70)
seventyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.75)
eighty_percent = begin_vowel + ((end_vowel - begin_vowel)*0.80)
eightyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.85)
ninety_percent = begin_vowel + ((end_vowel - begin_vowel)*0.90)
ninetyfive_percent = begin_vowel + ((end_vowel - begin_vowel)*0.95)

select Formant 'object_name\$'

f1_00 = Get value at time... 1 'begin_vowel' Hertz Linear
f1_05 = Get value at time... 1 'five_percent' Hertz Linear
f1_10 = Get value at time... 1 'ten_percent' Hertz Linear
f1_15 = Get value at time... 1 'fifteen_percent' Hertz Linear
f1_20 = Get value at time... 1 'twenty_percent' Hertz Linear
f1_25 = Get value at time... 1 'twentyfive_percent' Hertz Linear
f1_30 = Get value at time... 1 'thirty_percent' Hertz Linear
f1_35 = Get value at time... 1 'thirtyfive_percent' Hertz Linear
f1_40 = Get value at time... 1 'fourty_percent' Hertz Linear
f1_45 = Get value at time... 1 'fourtyfive_percent' Hertz Linear
f1_50 = Get value at time... 1 'midpoint' Hertz Linear
f1_55 = Get value at time... 1 'fiftyfive_percent' Hertz Linear

f1_60 = Get value at time... 1 'sixty_percent' Hertz Linear
f1_65 = Get value at time... 1 'sixtyfive_percent' Hertz Linear
f1_70 = Get value at time... 1 'seventy_percent' Hertz Linear
f1_75 = Get value at time... 1 'seventyfive_percent' Hertz Linear
f1_80 = Get value at time... 1 'eighty_percent' Hertz Linear
f1_85 = Get value at time... 1 'eightyfive_percent' Hertz Linear
f1_90 = Get value at time... 1 'ninety_percent' Hertz Linear
f1_95 = Get value at time... 1 'ninetyfive_percent' Hertz Linear
f1_100 = Get value at time... 1 'end_vowel' Hertz Linear
f2_00 = Get value at time... 2 'begin_vowel' Hertz Linear
f2_05 = Get value at time... 2 'five_percent' Hertz Linear
f2_10 = Get value at time... 2 'ten_percent' Hertz Linear
f2_15 = Get value at time... 2 'fifteen_percent' Hertz Linear
f2_20 = Get value at time... 2 'twenty_percent' Hertz Linear
f2_25 = Get value at time... 2 'twentyfive_percent' Hertz Linear
f2_30 = Get value at time... 2 'thirty_percent' Hertz Linear
f2_35 = Get value at time... 2 'thirtyfive_percent' Hertz Linear
f2_40 = Get value at time... 2 'fourty_percent' Hertz Linear
f2_45 = Get value at time... 2 'fourtyfive_percent' Hertz Linear
f2_50 = Get value at time... 2 'midpoint' Hertz Linear
f2_55 = Get value at time... 2 'fiftyfive_percent' Hertz Linear
f2_60 = Get value at time... 2 'sixty_percent' Hertz Linear
f2_65 = Get value at time... 2 'sixtyfive_percent' Hertz Linear
f2_70 = Get value at time... 2 'seventy_percent' Hertz Linear
f2_75 = Get value at time... 2 'seventyfive_percent' Hertz Linear
f2_80 = Get value at time... 2 'eighty_percent' Hertz Linear
f2_85 = Get value at time... 2 'eightyfive_percent' Hertz Linear

f2_90 = Get value at time... 2 'ninety_percent' Hertz Linear
f2_95 = Get value at time... 2 'ninetyfive_percent' Hertz Linear
f2_100 = Get value at time... 2 'end_vowel' Hertz Linear
f3_00 = Get value at time... 3 'begin_vowel' Hertz Linear
f3_05 = Get value at time... 3 'five_percent' Hertz Linear
f3_10 = Get value at time... 3 'ten_percent' Hertz Linear
f3_15 = Get value at time... 3 'fifteen_percent' Hertz Linear
f3_20 = Get value at time... 3 'twenty_percent' Hertz Linear
f3_25 = Get value at time... 3 'twentyfive_percent' Hertz Linear
f3_30 = Get value at time... 3 'thirty_percent' Hertz Linear
f3_35 = Get value at time... 3 'thirtyfive_percent' Hertz Linear
f3_40 = Get value at time... 3 'fourty_percent' Hertz Linear
f3_45 = Get value at time... 3 'fourtyfive_percent' Hertz Linear
f3_50 = Get value at time... 3 'midpoint' Hertz Linear
f3_55 = Get value at time... 3 'fiftyfive_percent' Hertz Linear
f3_60 = Get value at time... 3 'sixty_percent' Hertz Linear
f3_65 = Get value at time... 3 'sixtyfive_percent' Hertz Linear
f3_70 = Get value at time... 3 'seventy_percent' Hertz Linear
f3_75 = Get value at time... 3 'seventyfive_percent' Hertz Linear
f3_80 = Get value at time... 3 'eighty_percent' Hertz Linear
f3_85 = Get value at time... 3 'eightyfive_percent' Hertz Linear
f3_90 = Get value at time... 3 'ninety_percent' Hertz Linear
f3_95 = Get value at time... 3 'ninetyfive_percent' Hertz Linear
f3_100 = Get value at time... 3 'end_vowel' Hertz Linear

Save to a spreadsheet

```
appendFileLine: "outputPath$",
    ...object_name$, ",",
    ...interval_label$, ",",
    ...f1_00, ",",
    ...f1_05, ",",
    ...f1_10, ",",
    ...f1_15, ",",
    ...f1_20, ",",
    ...f1_25, ",",
    ...f1_30, ",",
    ...f1_35, ",",
    ...f1_40, ",",
    ...f1_45, ",",
    ...f1_50, ",",
    ...f1_55, ",",
    ...f1_60, ",",
    ...f1_65, ",",
    ...f1_70, ",",
    ...f1_75, ",",
    ...f1_80, ",",
    ...f1_85, ",",
    ...f1_90, ",",
    ...f1_95, ",",
    ...f1_100, ",",
    ...f2_00, ",",
    ...f2_05, ",",
    ...f2_10, ",",
```

...f2_15, "",
...f2_20, "",
...f2_25, "",
...f2_30, "",
...f2_35, "",
...f2_40, "",
...f2_45, "",
...f2_50, "",
...f2_55, "",
...f2_60, "",
...f2_65, "",
...f2_70, "",
...f2_75, "",
...f2_80, "",
...f2_85, "",
...f2_90, "",
...f2_95, "",
...f2_100, "",
...f3_00, "",
...f3_05, "",
...f3_10, "",
...f3_15, "",
...f3_20, "",
...f3_25, "",
...f3_30, "",
...f3_35, "",
...f3_40, "",

```
...f3_45, "",  
...f3_50, "",  
...f3_55, "",  
...f3_60, "",  
...f3_65, "",  
...f3_70, "",  
...f3_75, "",  
...f3_80, "",  
...f3_85, "",  
...f3_90, "",  
...f3_95, "",  
...f3_100
```

endif

endfor

select all

minus Strings list

Remove

endfor

select all

Remove

clearinfo

appendInfoLine: "Whoo-hoo! It didn't crash!"