# Coding parameters

SOURCEFORMAT = HAUDIO

#SOURCERATE=625.0

SOURCERATE=1250.0 #采样率8k =1/(1250\*100(纳秒)\*10的-9次方)=8000

TARGETKIND = MFCC\_D\_A\_0

#TARGETRATE = 100000.0 # 10ms frame

TARGETRATE = 100000.0 # 帧移80

SAVECOMPRESSED = T #输出压缩

SAVEWITHCRC = T #输出进行校验和检查SAVEWITHCRC is set true then a checksum is appended to

#the outpu

#WINDOWSIZE = 250000.0

WINDOWSIZE = 200000.0 # 帧长160

USEHAMMING = T #汉明窗

PREEMCOEF = 0.97 #预加重

NUMCHANS = 26 #滤波器通道的数目 Number of filterbank channels

CEPLIFTER = 22 #倒谱系liftering长度

NUMCEPS = 12

ENORMALISE = F # The variable ENORMALISE is by default true and performs energy #normalisation on recorded audio ﬁles. It cannot be used withlive audio #and since the target system is for live audio, this variable should be set to #false.

ZMEANSOURCE=F #Zero mean source waveform before analysis

USEPOWER = T #the Boolean conﬁguration parameter USEPOWER can be set true to use the #power rather than the magnitude of the Fourier transform in the binning #process.

SILFLOOR = 50.0 #Energy silence floor (dB) 默认值为50

#HPARM: CALWINDOW = 40 #used to set the number of speech frames to include in the speech/silence detector calibration window

#HPARM: SPEECHTHRESH = 9.0 #threshold relative to the estimated silence level above which signal is deemed to be speech

#HPARM: SILDISCARD = 10.0 #ignore frames with lower energy

#HPARM: SILENERGY = 0.0 #Average background noise level (dB) 背景噪声平均水平

#HPARM: SPCSEQCOUNT = 10 #num frames needed with energy above detector threshold in sequence in order to classify the incoming audio as speech 高于检测门限的帧数量多于10个则认为是语音帧

#HPARM: SPCGLCHCOUNT = 0 #when looking for SILSEQCOUNT frames with energy below threshold, max number of frames above threshold which can be ignored 查找静音帧数目时候，可以忽略超过门限的帧的最大数目

#HPARM: SILGLCHCOUNT = 2 #when looking for SPCSEQCOUNT frames with energy above threshold, max number of frames below threshold which can be ignored 查找语音帧数目时候，可以忽略低于门限的帧的最大数目

#HPARM: SILSEQCOUNT = 100 #num frames needed with energy below detector threshold in sequence in order to classify the incoming audio as silence 低于检测门限的帧的数量多于100个则认为是sli帧

# -- Define HMM Resources --

HMMSET: HMMLIST = "HMM.list" #name of hmm list file

HMMSET: MMF0 = "HMM.mmf" # name of one mmf file

#HMMSET: MMF1 = "proto" # name of one mmf file

#HPARM: CMNDEFAULT = "proto" #name of file holding the default cepstral(复倒谱) mean vector 。If the speech coding includes "\_Z", then cepstral mean subtraction must be applied.

#

#HPARM: CMNTCONST = 0.995 #running average time constant 求cepstral(复倒谱) mean vector 的公式中阿尔法的值

#HPARM: CMNRESETONSTOP = F

#HPARM: CMNMINFRAMES = 12

ADICT: DICTFILE = "pronunciate.dict"

AGRAM: GRAMFILE = "word.net"

# -- Configure Recogniser --

AREC: TRBAKFREQ = 1 #sets the frequency with which traceback for the asap and immed modes described above should be computed

AREC: RUNMODE = 05441 # hands free

#AREC: RUNMODE = 05221 # click to talk

AREC: GENBEAM = 200.0 #general beam width

AREC: WORDBEAM = 175.0 #word beam width

AREC: WORDPEN = -10.0 #word insertion penalty

HNET: FORCECXTEXP = T #Force phone context expansion

HNET: ALLOWXWRDEXP = F #Allow cross word triphone expansion

HNET: MARKSUBLAT = T

ARMAN: AUTOSIL = T #When the AUTOSIL variable is true, a silence model is automatically inserted at the start and end of the grammar

HREC: CONFSCALE = 0.15 #confidence measure scale factor 置信度比例因子

HREC: CONFOFFSET = 0.0 #confidence measure offset factor 置信度补偿因子

#HREC: CONFBGHMM = bghmm #background HMM for confidence measure 貌似没有用到

# -- Set visibility and positions of ATK controls --

AMONITOR: DISPXORIGIN = 40 #top-left x origin of display

AMONITOR: DISPYORIGIN = 480 #top-left y origin of display

AMONITOR: DISPWIDTH = 320 #width of a display panel

AMONITOR: DISPHEIGHT = 90 #height of a display panel

AIN: DISPSHOW=T

AIN: DISPXORIGIN = 440

AIN: DISPYORIGIN = 220

AIN: DISPHEIGHT = 40

AIN: DISPWIDTH = 160

ACODE: DISPSHOW=T

ACODE: DISPXORIGIN = 40

ACODE: DISPYORIGIN = 220

ACODE: DISPHEIGHT = 220

ACODE: DISPWIDTH = 380

ACODE: MAXFGFEATS = 13

ACODE: NUMSTREAMS = 1

AREC: DISPSHOW = T

AREC: DISPXORIGIN = 40

AREC: DISPYORIGIN = 20

AREC: DISPHEIGHT = 160

AREC: DISPWIDTH = 560

# ---- Debugging switches ------

HMMSET: TRACE = 0

ADICT: TRACE = 0

AGRAM: TRACE = 0

GGRAM: TRACE = 0

AREC: TRACE = 0

ARMAN: TRACE = 0

#HPARM: TRACE = 0

HNET: TRACE = 0

HREC: TRACE = 0