* The answers and discussions are in the scripts comments
* There are two scripts I used, the one marked with 3 at the end is for python 3 version

Reporting the results:

Paramters are in the format (nb\_frames, nb\_mel\_bands, window\_length)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameters | (40, 32, 2048) | (80, 128, 2048) | (160, 128. 1024) | (320, 128. 512) | (80, 64, 2048) |
| Accuracy | 0.777 | 0.773 | 0.793 | 0.769 | 0.736 |

To keep the size of parameters consistent we increase the nbr of frames for shorter window length

As displayed: best accuracy was with the parameters sets as:

nb\_frames = 160

nb\_mel\_bands = 128

window\_length = 2048

Pictures of the reported accuracies since it can’t be attached to comments:

