PSNR (Codebook大小，維度)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| bpp  data | 0.1 | 0.15 | 0.28 | 0.5 | 0.625 |
| aerial.png | 20.92 (85,64) | 25.88 (,64) | **48.84** (,64) |  |  |
| Baboon.gif | 19.93 (85,64) | 23.52 (,64) | 44.75 (,64) |  |  |
| boat.512.png | 19.81 (85,64) | 29.56 (,64) | 45.68 (,64) |  |  |
| Bridge.gif | 19.96 (85,64) | 24.98 (,64) | 47.50 (,64) |  |  |
| couple.png | 21.15 (85,64) | 30.06 (,64) | 47.33 (,64) |  |  |
| F16.gif | **22.73** (85,64) | **32.01** (,64) | 48.88 (,64) |  |  |
| indigenous.png |  |  |  |  |  |

MSE (Codebook大小，維度)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| bpp  data | 0.1 | 0.15 | 0.28 | 0.5 | 0.625 |
| aerial.png | 69.70 (85,64) | 51.94 (,64) | **0.84** (,64) |  |  |
| Baboon.gif | 83.73 (85,64) | 68.33 (,64) | 1.99 (,64) |  |  |
| boat.512.png | 64.96 (85,64) | 37.32 (,64) | 1.75 (,64) |  |  |
| Bridge.gif | 88.62 (85,64) | 64.45 (,64) | 1.08 (,64) |  |  |
| couple.png | 62.33 (85,64) | 35.26 (,64) | 1.20 (,64) |  |  |
| F16.gif | **42.65** (85,64) | **21.17** (,64) | **0.84** (,64) |  |  |
| indigenous.png |  |  |  |  |  |

測試到bpp 0.28記憶體不足，且512\*512圖像經過DCT後只會產生64\*64()的區塊，只是調高codebook大小，意義不大。

目前想法，若要執行往後的bpp，需要搭配DCT資訊集中的特性，降低維度，保留左上方的資料，捨棄右下方。