Assignment 3 Report

通訊二 110503504 林巧翎

Arithemtic Coding

在 compare 資料夾 輸入 cd arcd-master 輸入 cd examples

```
lin@lin-virtual-machine:~/Desktop/compare$ cd arcd-master
lin@lin-virtual-machine:~/Desktop/compare/arcd-master$ cd examples
```

compile

輸入 make

```
lin@lin-virtual-machine:~/Desktop/compare/arcd-master/examples$ make
[ 33%] Built target arcd
[ 66%] Built target adaptive_model
[100%] Built target arcd_stream
```

excute

壓縮

輸入 ./arcd_stream -e < input.file | tee output.file

花費時間 0.000465 seconds

解壓縮

輸入 ./arcd stream -d < input.file | tee output.file



花費時間 0.000703 seconds

Huffman Coding

在 compare 資料夾 輸入 cd huffman-main

lin@lin-virtual-machine:~/Desktop/compare\$ cd huffman-main

compile make

```
lin@lin-virtual-machine:~/Desktop/compare/huffman-main$ make
cc -g -Wall -Werror -Wextra -00 -std=c11 -D_POSIX_C_SOURCE=2 -c -o huffcode.o huffcode.c
cc -g -Wall -Werror -Wextra -00 -std=c11 -D POSIX C SOURCE=2 -c -o huffman.o huffman.c
```

execute

壓縮

輸入 ./huffcode -i input.file -o output.file -c

```
lin@lin-virtual-machine:-/Desktop/compare/huffman-main$ ./huffcode -i text.txt -o CTEST.txt -c
花費時間 0.000537 seconds
```

花費時間 0.000537 seconds

壓縮檔案部分截圖

解壓縮

輸入 ./huffcode -i input.file -o output.file -d

lin@lin-virtual-machine:~/Desktop/compare/huffman-main\$./huffcode -i CTEST.txt -o DTEST.txt -d 花費時間 0.000607 seconds

花費時間 0.000607 seconds

解壓縮檔案部分截圖