系統程式設計

Lab5 Stdio Compare

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1. Where is the counter you add?

(請註明在程式碼的第幾行,最好加上截圖)

Counter 在第 4 與 13 行

```
#include "apue.h"
#include "error.c"

int count = 0;

int main(void)

{

    int c;
    setvbuf(stdin,)
    while( (c = getc(stdin)) != EOF)

    count++;
    if(putc(c,stdout) == EOF)

    if(ferror(stdin))
    err_sys("output error");

if(putc(c,stdout) == EOF)

printf("%d", count);
exit(0);

}
```

2. Screen shot for Table1

(提供每個執行後的截圖,並說明每張截圖是屬於哪種

function)

getc/putc

fgets/fputs

```
[(base) 930727fre@930727frem2 test % /usr/bin/time ./a.out <100mb_file_for_buffSize4096 25607 0.06 real 0.01 user 0.03 sys
```

3. Screen shot for Table 2

(提供每個執行後的截圖·並說明每張截圖是屬於哪種 mode)

Fully buffered

```
((base) 930727fre@930727frem2 test % /usr/bin/time ./a.out <100mb_file_for_buffSize4096
25607
0.07 real 0.01 user 0.03 sys
```

Line buffering

```
[(base) 930727fre@930727frem2 test % /usr/bin/time ./a.out <100mb_file_for_buffSize4096 25607 0.06 real 0.01 user 0.03 sys
```

No buffering

```
[(base) 930727fre@930727frem2 test % /usr/bin/time ./a.out <100mb_file_for_buffSize4096
25607
58.02 real 19.16 user 38.80 sys
```