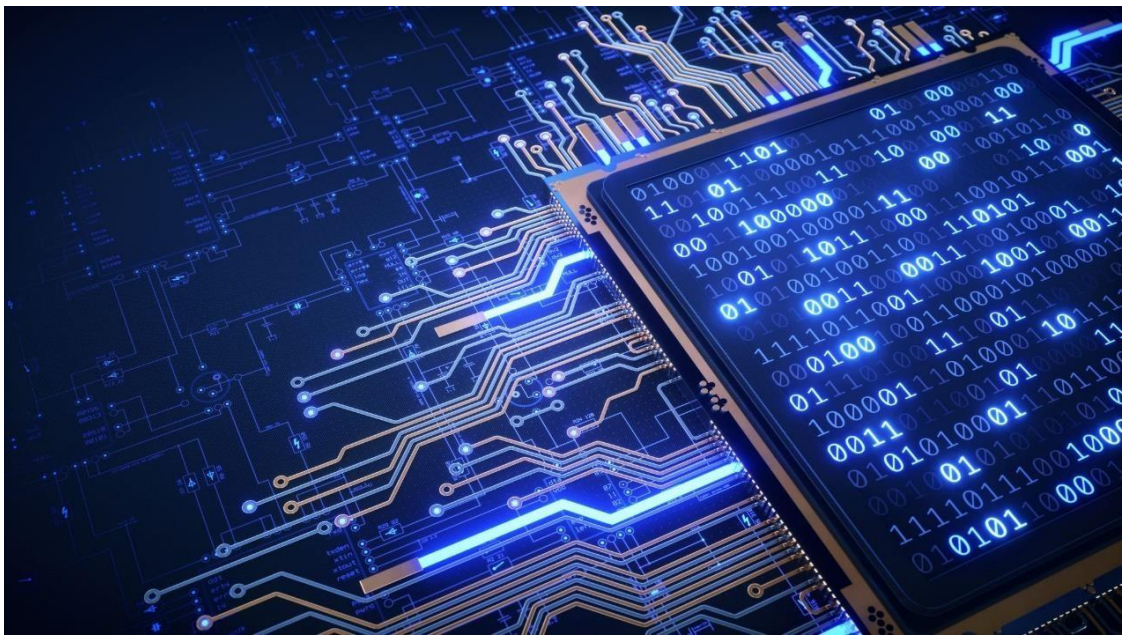
ADVANCED UNIX PROGRAMMING ASSIGNMENT REPORT

ASSIGNMENT 5



TEAM 9 — 林禾堃、馬毓昇、陳曦

Nov 2023

1. Code Implementation

First, in the main function, we create ‘val’ and set its value to 5. And then we try to get the address of ‘val’ from the f1 function.

```c
int main(){
    int val = 5;
    printf("Value %d is at %p\n", val, f1(&val));
    return 0;
}
```

In the modified f1 function, what actually matters is that we return int* type of ‘val’ such that we can get the address of it.

```c
int* f1(int *val){
    int num = 0;
    int *ptr = &num;
    if(num == 0){
        int val;
        val = 5;
        ptr = &val;
    }
    return val;
}
```

Lastly, we print the value and the address of ‘val’ in the main function as the sample output.

2. Results

```
root@genet0:~/Advanced-UNIX-Programming/HW5 # ./assignment5
Value 5 is at 0x811ff69c
```