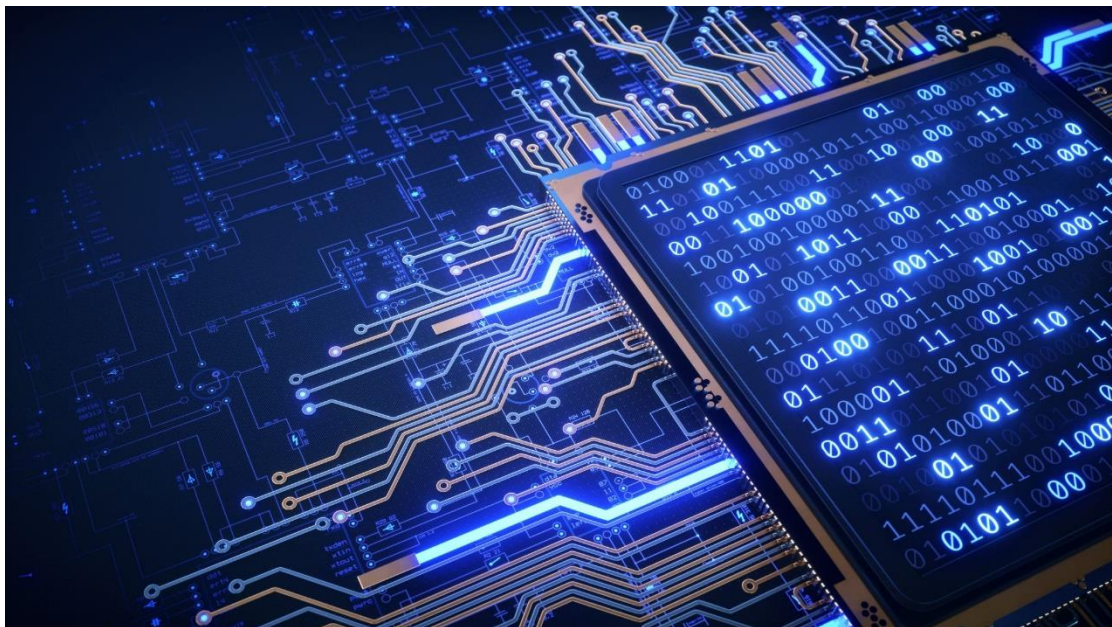# ADVANCED UNIX PROGRAMMING ASSIGNMENT REPORT

ASSIGNMENT 4

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1. Code Implementation

First, get current time (UTC) in the unit of seconds from Epoch by **time()**.

```
// Get unix timestampe (Epoch) by time()
time_t tloc;
time(&tloc);
```

Then, break down the **time_t** value by calling **localtime()**.

```
// Transfer time_t to tm by localtime()
char buf[100];
struct tm *timeptr = localtime(&tloc);
```

Finally, print the current time by **strftime()**, using the same output format as **date()**.

```
// Print format string by strftime()
strftime(buf, 100, "%a %b %d %H:%M:%S %Z %G\n", timeptr);
printf(buf);
return 0;
```

2. Results

2.1 Taipei time zone

```
root@genet0:~/Advanced-UNIX-Programming/HW4 # make test1
Mon Oct 23 17:26:49 CST 2023
```

2.2 Change the time zone (New Zealand, in our case)

```
root@genet0:~/Advanced-UNIX-Programming/HW4 # make test2
Mon Oct 23 22:27:33 NZDT 2023
```