How to Run

To generate data just run Run.sh in Data_Generation folder.

Configuration

Configuration is needed for setting platform id for cpu and gpu separately as it varies for different heterogeneous systems.

1.Matrix_Mul:

Open Matrix_Mul folder.

◆ **Setting platforms**: In CPU/GPU folder set platform id according to the system.

◆ **Setting no of samples :** In Run.sh set loop size according to sample size for cpu and gpu.

```
cd CPU
a=0
while [ $a -lt 2 ]

cd GPU
#a=0
while [ $a -lt 2 ]
```

In Matrix_Sizes.cpp set loop condition with sample size (100 in fig below)

```
/************************ Random Matrix Sizes Generation ************
set<int> Matrix_Sizes;
/*Matrix_Sizes.insert(1024);*/

for (int i = 7000; i <= 20000; i+=500) /* Multiples of 500 within 1500-20000 */
{
    Matrix_Sizes.insert(i);
}
while (Matrix_Sizes.size()<\frac{100}{100}) /* Random No within 1024-19999 */
{
    int temp = (rand()%18975) + 7000;
    Matrix_Sizes.insert(temp);
}</pre>
```