Project 1

Students: Shi Qi Hu, Qian Wang

1.

a. 

b. 

c. 

d.  Thus the algorithms is effective

2.

(b) Run time of pi.c : 12.9

pi2.c:

One processor: 13.63

Four processor: 03.99

Eight processor: 02.75

pi1.c:

One processor:

Four processor:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1 processor | 4 processor | 8 processor |
| Static | 13.6 | 03.35 | 01.68 |
| Dynamic | 45.07 | 2:17.41 | 2:17.51 |

(c)

One processor: 03.70

Four processor: 00.87

Eight processor: 00.77

3.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1 processor | 4 processor | 8 processor |
| Explicit Construct | 414416ms | 105046ms | 82999.9ms |
| Implicit | 474216ms | 120329ms | 352678ms |