1. **Particle Swarm Optimization:**
2. ***2 Dimension:***

參數 ./main 30 2 30

30 particals(population)

2 dimension

30 run

20000 evaluation





1. ***10 Dimension:***

參數 ./main 60 10 30

60 particals(population)

10 dimension

30 run

100000 evaluation





* **共同參數：**

ω\_max = 0.9, ω\_min = 0.4; // 動態遞減慣性權重

toward\_pBest = 1.5, toward\_gBest = 1.5; // 個體加速因子和社會加速因子

* **邊界：**

-32765~32768

* **Ackley Function：**
* const double a = 20.0;
* const double b = 0.2;
* const double c = 2 \* M\_PI;

1. **Differential Evolution:**
2. ***2 Dimension:***

參數 ./main 30 2 1

30 particals(population)

2 dimension

1 run

20000 evaluation





1. ***10 Dimension:***

參數 ./main 60 10 1

60 particals(population)

10 dimension

1 run

100000 evaluation



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* **共同參數：**

double F = 0.5; // 擴張係數

double CR = 0.9; // 交叉率

* **邊界：**

-32765~32768

* **Ackley Function：**
* const double a = 20.0;
* const double b = 0.2;
* const double c = 2 \* M\_PI;