# Serial version

How to compile:

gcc HeatEquation2DSerial.c -o HeatEquation2DSerial

Script: run1.sh

Make (for dimension as 64 and iterations as 2000)

./HeatEquation2DSerial 64 2000

# Parallel version

Makefile

HeatEquation2D:HeatEquation2D.c

mpicc HeatEquation2D.c -o HeatEquation2D

Script run2.sh

Make for (64 grid dimension, 2000 iterations and 16 processors)

ibrun -n 16 -o 0 ./HeatEquation2D 64 2000

Make for (64 grid dimension, 2000 iterations and 4 processors)

ibrun -n 04 -o 0 ./HeatEquation2D 64 2000