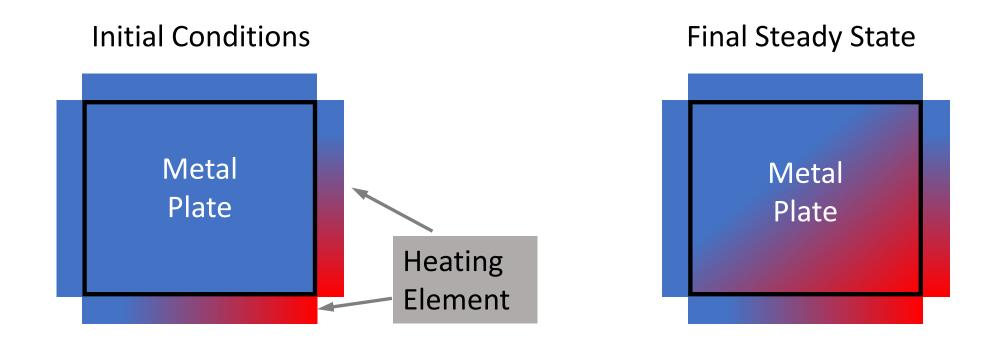
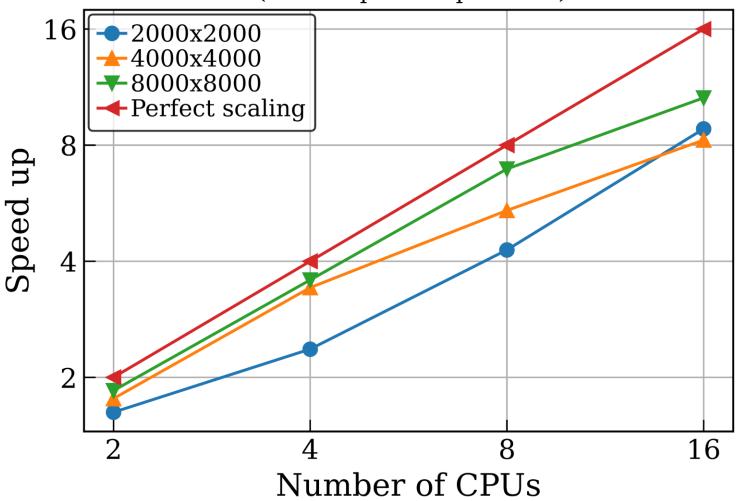
## A Heated Metal Plate



Steady state heat distribution in governed by Laplace equation:

$$\nabla^2 T = 0$$

## Strong scaling of 2D Jacobi solver on Power9 (Darwin power9 partition)

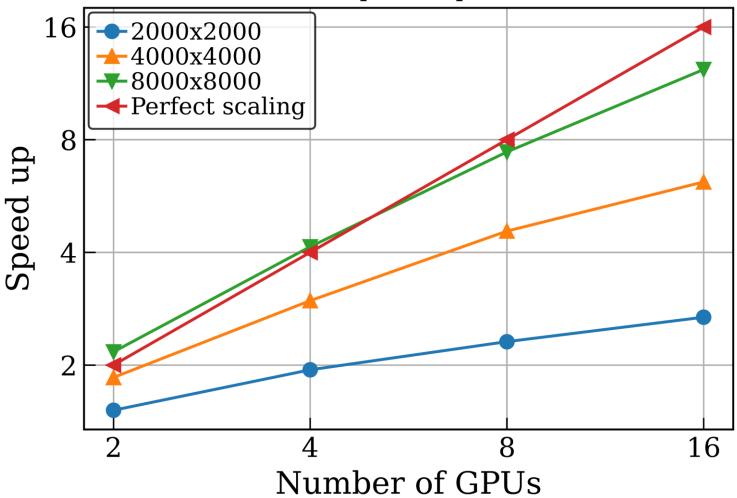


CPU: Power9

Build info: cmake/3.19.2, gcc/9.4.0,

openmpi/3.1.6

## Strong scaling of 2D Jacobi solver on V100 (Darwin power9 partition)

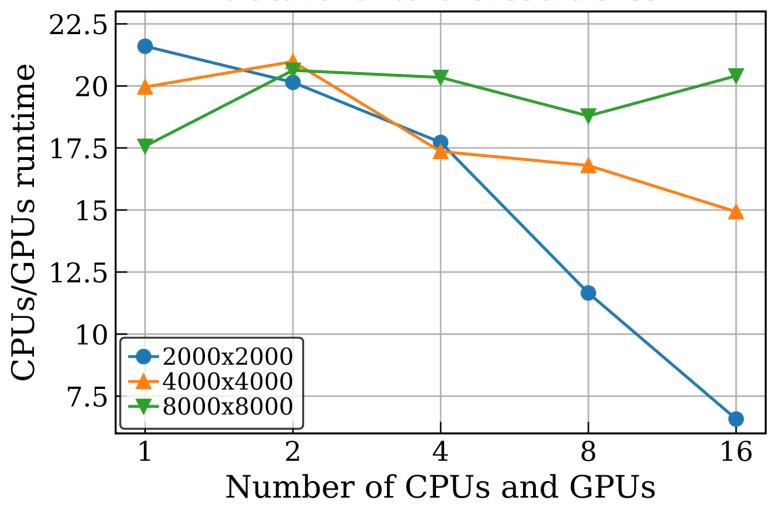


GPU: NVIDIA V100

Build info: cmake/3.19.2, gcc/9.4.0,

openmpi/3.1.6, cuda/11.4.0

## Ratio of CPU to GPU runtime for the same number of CPUs and GPUs



CPU: Power9

**GPU: NVIDIA V100** 

Build info: cmake/3.19.2, gcc/9.4.0,

openmpi/3.1.6, cuda/11.4.0