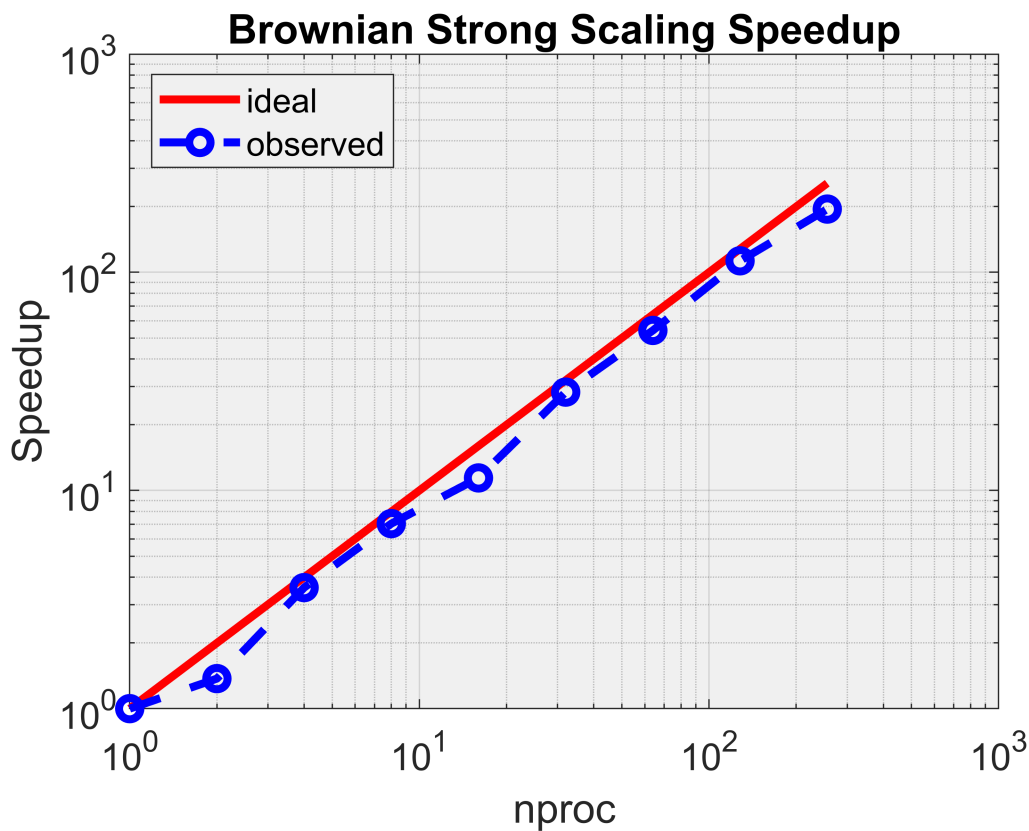


%SPEEDUP

```
speed = readmatrix('strongParallelData.csv');
nproc = speed(:,1);
time = speed(:,2);

speedup = time(1)./time;
idealSpeedup = nproc;

loglog(nproc,idealSpeedup,'r-',nproc,speedup,'bo--','LineWidth',3,'MarkerSize',8);
grid on;
xlabel('nproc','FontSize',14);
ylabel('Speedup','FontSize',14);
set(gca,'FontSize',14);
set(gca,'color',1/255*[240 240 240])
title('Brownian Strong Scaling Speedup');
legend('ideal','observed','Location','northwest');
```



%EFFICIENCY

```
efficiency = speedup./nproc;
semilogx(nproc,efficiency,'bo-','LineWidth',3,'MarkerSize',8);
grid on;
xlabel('nproc','FontSize',14);
ylabel('Efficiency','FontSize',14);
```

```
ylim([0 1]);  
set(gca, 'FontSize', 14);  
set(gca, 'Color', 1/255*[240 240 240])  
title('Brownian Strong Scaling Efficiency');
```

