

Data Parallel Solver

```

1.  int n, nprocs;                                /*grid size (n + 2-by-n + 2) and number of processes*/
2.  float **A, diff = 0;

```

nprocs = number of processes = p

```

3.  main()
4.  begin
5.      read(n); read(nprocs);                    /*read input grid size and number of processes*/
6.      A ← G MALLOC (a 2-d array of size n+2 by n+2 doubles);
7.      initialize(A);                            /*initialize the matrix A somehow*/
8.      Solve (A);                                /*call the routine to solve equation*/
9.  end main

```

Setup/Initialize Points

A = Matrix of n x n points

```

10. procedure Solve(A)                            /*solve the equation system*/
11.     float **A;                                /*A is an (n + 2-by-n + 2) array*/
12.     begin

```

Block decomposition by row

n/p rows per processor

```

13.     int i, j, done = 0;
14.     float mydiff = 0, temp;
14a.     DECOMP A[BLOCK,*, nprocs];
15.     while (!done) do                            /*outermost loop over sweeps*/
16.         mydiff = 0;                            /*initialize maximum difference to 0*/
17.         for_all i ← 1 to n do                  /*sweep over non-border points of grid*/

```

```

18.             for_all j ← 1 to n do
19.                 temp = A[i,j];                /*save old value of element*/
20.                 A[i,j] ← 0.2 * (A[i,j] + A[i,j-1] + A[i-1,j] +
21.                     A[i,j+1] + A[i+1,j]);      /*compute average*/
22.                 mydiff += abs(A[i,j] - temp);

```

Sweep/Iteration:
T = O(n²/p)

```

23.             end for all
24.         end for all

```

```

24a.     REDUCE (mydiff, diff, ADD);
25.     if (diff/(n*n) < TOL) then done = 1;

```

Add all local differences (REDUCE)
cost depends on architecture
and implementation of REDUCE
best: O(log₂p) using binary tree reduction
Worst: O(p) sequentially

O(n²/p + log₂p) ≤ T(iteration) ≤ O(n²/p + p)

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