

# An Introduction to Parallel Programming Solutions, Chapter 1

Jinyoung Choi and Peter Pacheco

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```
1.    quotient = n / p;
      remainder = n % p;
      if (my_rank < remainder) {
          my_n_count = quotient + 1;
          my_first_i = my_rank * my_n_count;
      } else {
          my_n_count = quotient;
          my_first_i = my_rank * my_n_count + remainder;
      }
      my_last_i = my_first_i + my_n_count;
```

2. We are assigning blocks of elements to cores in order (the first  $n/p$  elements to core 0, the next  $n/p$  elements to core 1, so on). So, for example, if  $n = 12$  and  $p = 4$ , core 0 spends 12 milliseconds in the call to `Compute_next_value` ( $i = 0, 1, 2$ ), core 1 spends 30 milliseconds ( $i = 3, 4, 5$ ), core 2 spends 48 milliseconds ( $i = 6, 7, 8$ ), and core 3 spends 66 milliseconds ( $i = 9, 10, 11$ ). So clearly this assignment will do a very poor job of load balancing.

A better approach uses a *cyclic* assignment of the work to the cores:

```
/* assign[c][j] is the jth value of i assigned to core c */
/* work[c] is the total amount of work assigned to core c */
c = j = 0;
for (i = 0; i < n; i++) {
    work[c] += 2*(i+1);
    assign[c][j] = i;
    c = (c + 1) % p;
    if (c == 0) j++;
}
```

# Introduction To Parallel Processing Solution Manual

**Hector H. Diaz Lopez, IBM Redbooks**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Introduction To Parallel Processing Solution Manual:**

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**Applied Parallel Computing** Bo Kagström, Erik Elmroth, Jack Dongarra, Jerzy Wasniewski, 2007-09-22 This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on Applied Parallel Computing PARA 2006 It covers partial differential equations parallel scientific computing algorithms linear algebra simulation environments algorithms and applications for blue gene L scientific computing tools and applications parallel search algorithms peer to peer computing mobility and security algorithms for single chip multiprocessors

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