

An Introduction to Parallel Programming Solutions, Chapter 1

Jinyoung Choi and Peter Pacheco

February 1, 2011

- ```

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;

```
- 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 Programming Solution Manual

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

## **Introduction To Parallel Programming Solution Manual** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Introduction To Parallel Programming Solution Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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