

# An Introduction to Parallel Programming Solutions, Chapter 1

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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 Programming Peter Pacheco Solutions

**Rosina Ehmann**



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