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```
int a = 50; int b = 0; #pragma omp parallel. for default(none) private(i) firstprivate(a) lastprivate(b) for (i=0; i<N; i++) { . b = a + i; printf("a=%d
```

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```
b=%d (expected a=50 b=1049)\n", a, b); [user@adroit3]$ gcc -fopenmp omp_private_4.c -o omp_private_4. [user@adroit3]$ export OMP_NUM_THREADS=4.
```

Introduction to Parallel Programming with MPI and OpenMP

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1.1 Devise formulas for the functions that calculate my first i and my last i in the global sum example. Remember that each core should be assigned roughly the same number of elements of computations in the loop.

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An Introduction to Parallel Programming is an elementary introduction to programming parallel systems with MPI, Pthreads, and OpenMP. It is intended for use by students and professionals with some knowledge of programming conventional, single-processor systems, but who have little or no experience programming multiprocessor systems. The web sites mentioned in the Preface have been changed.

An Introduction to Parallel Programming

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Assuming a uniform distribution of data, the parallel run time is: $TP = n/p + (p \log n/p) + (p \log^2 p) + p \log n/p + (n/p) + O(p \log p)$ The isoefficiency function of this formulation is $(p^2 \log p)$. 31 Recall that the parallel runtime is $TP = b/r + 2r((\log n) + (n))$ (9.2) The optimal value of r is such that it minimizes Equation 9.2.

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Programming Manual

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