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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 b=%d
```

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```
(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.
```

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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

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number of elements of computations in the  
loop.  
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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

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been changed.

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Assuming a uniform distribution of data, the parallel run time is:  $TP = n/p \log n/p + (p \log^2 p) + p \log n/p + (n/p) + O(p \log p)$

The isoef fi ciency function of this formulation is  $(p^2 \log p)$ . 31 Recall that the

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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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class code. Building on OS X. These instructions are for OS X 10.9

"Mavericks". Step 1. Build and install OpenCV. The best way to do this is with Homebrew.

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### In Praise of

solution of computationally large and data-intensive problems. The emergence of inexpensive parallel computers such as commodity desktop multiprocessors and clusters of workstations or PCs has made

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such parallel methods generally applicable, as have software standards for portable parallel programming.

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solutions. Testing Environment: Visual Studio 2015 x64 + nVidia CUDA 8.0 + OpenCV 3.2.0. For each problem set, the core of the algorithm to be implemented is located in the students\_func.cu file.



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