SC2011B EXE #2 Evaluation form

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| Students’ initials | Instructions | Code documentation | execution | Results | Visualization | grade |
| TA | Ok in PDF | As comments in the code | C + OpenMPI  Executing the script “run”  Master-workers model  Your workers communicate only with the master but not among themselves this is not so efficient. The should send/recv the ghost points between nearest neighbors. | Nice speedups  Input/output – text files | N/A | 90 |
| EZ | Very good |  | C + OpenMPI  Usage of MPI\_Request  MPI\_ISend and MPI\_Wait  Very good | Discussion about the speedup although execution took place on virtual machines. This is ok. | Bmp to animated GIF. Cool !!! | 95 |
| EN | Ok in PDF | Python then MPI and C  Build random matrix: >>python 1.py 20 20  Then hw2.c | No discussion about the h/w and the number of cores in the execution environment.  Can save communication by sending BOARD\_LENGTH and BOARD\_HEIGHT in a single command  Master-worker model. | Shows 3 results where speedup can be computed but numbers are not given. | bmp | 90 |
| BK | Readme.txt | In the code as comments | Windows 7 64 bit i7 8 core processor using DeinoMPi +C++ & Vstudio  It was not straight forward building the program on my computer. The paths were different. | Why did you use a message parser to replace the standard mpi commands? | Plots were generated using Octave (begin and end) | 90 |
| FH | You submitted two versions. One in the doc file and another one as a stand alone. No instructions. | none | Windows + Denio MPI – OK | Usage of MPI\_Bcast and MPI\_Reduce – sum (why???) the results cannot be correct! There should be communication between the nodes to exchange ghost lines. | Screen dumps | 70 |
| NT | PDF 4 pages. OK | In the code as comments ok | MPI + Python (mpi4py) + numpy + matplotlib  Run\_game n | There is a discussion about the performance (speedup). Taking into account the 2-core machine the result make sense.  Master-workers model. Not efficient. Computing node should communicate directly with each oher. | Matplotlib + convert (movie) | 90 |
| EG | Not submitted |  |  |  |  | 0 |