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Professor Pearl Wang
Department of Computer Science
George Mason University
4400 University Drive
Fairfax, VA 22030

Dear Pearl,

Please find enclosed five copies of the revised manuscript *Generating Communication for Array Statements: Design, Implementation, and Evaluation*.

Based on the reviewers' comments, we have changed the paper in a number of ways:

- We have shortened the paper to fit the space bounds of a Research Note. We have reduced the number of figures in Section 5 (Evaluation). This should do justice to the reviewers' suggestion to trim this part. (The actual figures can be further reduced in size for the final version.)
- In section 5, we pay special attention to the simpler block and cyclic distributions, since Referee A expects those to be more common. (The issue of which distributions are more likely is really beyond the scope of this paper. See [5] for another argument in favor of block-cyclic distributions.) We also cover how the compiler deals with these simpler distributions [in this case, quite efficient code is generated]. We have also added an example of the actual Fortran code generated, as suggested by Referee A.
- We have added a figure depicting the performance of the transpose. This figure, plus the data for the individual array statements and the 2d FFT program, should provide the reader with reasonable information about at least one complete kernel. We have evaluated additional kernels, but the space constraints limit us for this paper.
- Finally, as I indicated to you in an earlier message, we do not provide measurments for other architectures. There just is not enough space to cover different machines in a Research Note. Furthermore, at this time, the software of the Paragon system is not stable enough to perform a meaningful evaluation. (We have ported our compiler to the Paragon and expect to publish an evaluation eventually.)

I have these changes reflect all the referees' suggestions. We certainly appreciate their feedback (and will acknowledge this at the appropriate point).

Thank you for your consideration.

Sincerely

Thomas Gross