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6. AUTHOR(S) PROFESSOR STAVROS ZENOIS				2304/DS AFOSR-91-0168	
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UNIVERSITY OF CYPRUS

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April 10, 1994

Dr Neal Glassman
Air Force Office of Scientific Research
Bolling Air Force Base
Washington, DC 20332-6448

Dear Dr Glassman:

71-0168
I enclose the Final Report for AFOSR grant 91-0618. Please let me know if you need any further information from me at this time. All publications that cite the AFOSR grant were submitted to you with the Progress Reports in the past.

I would appreciate if you could let me know if this report satisfies the requirements of the AFOSR.

I believe that our research in parallel optimization methods for network-structured problems has advanced significantly the state-of-the-art in large scale optimization. It also had an impact on several applications we dealt with, such as problems of Naval personnel readiness and portfolio optimization. Eighteen (18) papers have been published in refereed Journals. I am now working on a textbook on the theory, algorithms and applications of parallel optimization.

I hope that we could collaborate further with your office in the future. I will get in touch with you once I return from my sabbatical.

With my greatest appreciation for your support during this project.

Sincerely yours,

Stavros A. Zenios

cc: Office of Research Administration, University of Pennsylvania.

Please communicate with me preferably via FAX (357) 2-491685 at the University of Cyprus, or via email at zenios@wharton.upenn.edu.

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Final Report:
Parallel Decompositions
for Network Structured Problems
AFOSR grant 91-0168.

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April 1994.

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A. PUBLICATIONS IN PEER-REVIEWED PROFESSIONAL JOURNALS.

We list articles that have been published, or for which a letter of acceptance is available. Items [1, 15] are books; [15] was reviewed by anonymous referees solicited by Cambridge University Press, before the Press syndicate undertook its publication

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D. ADDITIONAL RESEARCHERS WORKING WITH THE PI.

The following received partial funding from the AFOSR grant, or collaborated with the PI:

1. Dafeng Yang, PhD student, University of Pennsylvania, 1992-today.
2. Raymond McKendall, Post-doctoral student, University of Pennsylvania, 1991-1993.
3. Michael Shtilman, partially funded as a Research Associate, 1991.
4. Pan Kang, partially funded as a Research Associate, 1990-1992.
5. Soren Nielsen, received his PhD in 1992, currently with the faculty at University of Texas at Austin
6. Mustafa Pinar, received his PhD in 1992, currently a Research Associate with the Technical University of Denmark.
7. Alex MERRAIS, GAMS Development Corporation, collaborated with the PI without funding.

8. Henrik Dahl, GAMS Development Corporation. collaborated with the PI without funding.
9. Martin Holmer, The Federal National Mortgage Association, Washington, DC. collaborated with the PI without funding.

C. PROFESSIONAL HONORS.

1. Second Prize, Gordon Bell Competition, 1988. IEEE Competition on Parallel Computing
2. Member of the editorial boards for: *SIAM Journal on Optimization* (since 1991), *ORSA Journal on Computing* (since 1987), *Naval Research Logistics* (since 1989), *Computational Optimization and Applications* (since 1991), *Parallel Algorithms and Applications* (since 1992).
3. Full member, *Operations Research Society of America* (since 1990).