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Dr. Greenberg, acting as principal investigator under AFOSR grant 89-0101, entered into a contract with Ardent Computer Corporation of Sunnyvale, California to purchase a four processor Titan at a cost of \$129,000. This price exceeded the original estimate put forth to the Air Force by \$47,000, the additional monies come from departmental and university funds and allowed us to purchase a machine with twice the capacity of the one originally proposed. The department also purchased the video output device outlined in the original proposal.					
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THE UNIVERSITY OF MARYLAND

BALTIMORE COUNTY CAMPUS
Department of Mathematics and Statistics

November 28, 1989

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Paulette M. Bowman
AFOSR/PKZA
Building 410
Bolling AFB, DC 20332-6448

Re: Final Report Grant AFOSR-89-0101

Dear Ms. Bowman

Dr. Greenberg, acting as principal investigator under AFOSR Grant 89-0101, entered into a contract with Ardent Computer Corporation of Sunnyvale, California to purchase a four processor Titan at a cost of \$129,000. This price exceeded the original estimate put forth to the Air Force by \$47,000, the additional monies came from departmental and university funds and allowed us to purchase a machine with twice the capacity of the one originally proposed. The department also purchased the video output devices outlined in the original proposal.

This equipment has been invaluable to both the principal investigator and the other associate investigators on the original proposal; Dr. Greenberg has been engaged on work on flow visualization for models of the Boltzmann equation and Dr. Lo has been doing extensive work on signal processing which utilizes the vector capabilities of the Ardent to its fullest. (KR)

Some problems have arisen between the vendor and ourselves relating to the fact that the graphics performance of this machine has not been up to the specifications quoted by Ardent. Greenberg and two of his students have been working closely with personnel from Ardent to rectify this situation and as of this date the situation has improved some. Greenberg reported on a series of benchmarks run on both the Ardent and two Silicon Graphics machines at a recent SIAM meeting on geometric modelling and design; necessity has forced us to become experts in graphics software development.

Yours truly,

James M. Greenberg, Chairman
Department of Mathematics and Statistics

JMG/sta

cc: Dr. Arje Nachman
Earl Kelly



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