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CUMULATIVE REPORTS AND PUBLICATIONS through DECEMBER 31, 1991

Contract Nos. NAS1-18605, NAS1-18107, NAS1-17070, NAS1-17130, NAS1-15810, NAS1-16394, NAS1-14101, NAS1-14472

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Institute for Computer Applications in Science and Engineering
NASA Langley Research Center
Hampton, Virginia 23665-5225

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\[1\text{Presently, ICASE is operated at NASA Langley Research Center, Hampton, VA, 23665 under NASA Contract No. NAS1-18605. In the past, support has been provided by NASA Contracts No. NAS1-17070, NAS1-17130, NAS1-15810, NAS1-16394, NAS1-14101, and NAS1-14472.}\]
ICASE Reports - 1991


Saltz, Joel, Serge Petiton, and Harry Berryman: *Performance effects of irregular communications patterns on massively parallel multiprocessors.* ICASE Report No. 91-12, January


Amitai, Dganit, Amir Averbuch, Samuel Itzikowitz, and Eli Turkel: *Asynchronous and corrected-asynchronous numerical solutions of parabolic PDEs on MIMD multiprocessors.*


**ICASE Reports - 1990**


**ICASE Reports - 1989**


**ICASE Reports - 1988**


ICASE Reports - 1987


ICASE Reports: 1986


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**ICASE Reports: 1985**


Tal-Ezer, H.: *The eigenvalues of the pseudospectral Fourier approximation to the operator \( \sin(2x) \frac{d}{dx} \).* ICASE Report No. 85-8, February 7, 1985, 10 pages.


**ICASE Reports: 1984**


**ICASE Reports: 1983**


**ICASE Reports: 1982**


Rose, M. E.: *A numerical scheme to solve div \( \mathbf{u} = \rho, \) curl \( \mathbf{u} = \zeta. * ICASE Report No. 82-8, April 7, 1982, 14 pages.


**ICASE Reports: 1981**


**ICASE Reports: 1980**


ICASE Reports: 1979


**ICASE Reports: 1978**


**ICASE Reports: 1977**


**ICASE Reports: 1976**


Raffenetti, R. C. and M. D. Gunzburger: *A note on the application of the finite-difference boundary value method to the calculation of Born-Oppenheimer vibrational eigenvalues for the double minimum $E, F^1, \Sigma_g^+$ state of the hydrogen molecule*. ICASE Report No. 76-5, February 25, 1976, 5 pages.


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**ICASE Reports: 1975**


Cline, A.: The transformation of a quadratic programming problem into solvable form. ICASE Report No. 75-14, August 11, 1975, 14 pages.


Abarbanel, S: The slow recirculating flow near the rear stagnation point of a wake. ICASE Report No. 75-18, September 29, 1975, 13 pages.


**Earlier ICASE Reports**


Swint, E. and D. Yen: *Periodic solutions in a class of nonlinear dual-mass systems.* Computational Methods in Nonlinear Mechanics, University of Texas, Austin, Texas.


Other Reports by ICASE Personnel


# CUMULATIVE REPORTS AND PUBLICATIONS

through December 31, 1991

**Authors:**

- NAS1-18605
- NAS1-18107
- NAS1-17070
- NAS1-17130
- NAS1-15830
- NAS1-16394
- NAS1-14101
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Final Report

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**ABSTRACT:**

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**Subject Terms:**

Mathematics; Numerical Analysis; Computer Science

**Number of Pages:**

84

**Price Code:**

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