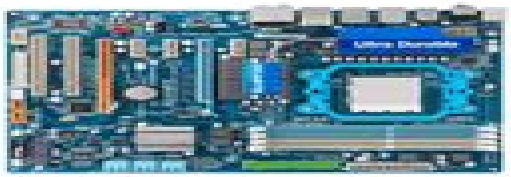
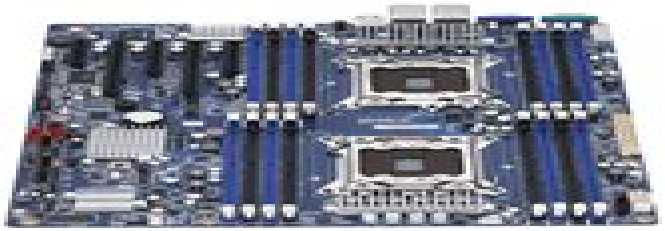
Advantages of Multiprocessors (Parallel Processors)

1. Create **powerful computers** by simply connecting multiple processors.
2. A multiprocessor is expected to reach **faster speed** than the fastest single-processor system.
3. A multiprocessor consisting of a number of single processors is expected to be more **cost-effective** than building a high-performance single processor.
4. A multiprocessor is **fault tolerance**. If a processor fails, the remaining processors should be able to provide continued service.



Single Processor System

VS



Multi Processor System

Parameter	Single Processor Systems	Multiprocessor Systems
Description	If a System contains only **one processor** for processing than it is called single processor system.	If a System contains **two** or **more** than two processors for processing than it is called multiprocessor system.
Speed	Speed of Single Processor Systems is **less** than Multiprocessor Systems Because each and every task is performed by the same processor.	Speed of Multiprocessor systems is **greater** than single processor systems.
Cost	Single Processor Systems **cost more** because each processor requires separate resources. i.e. Mass Storage, Power Supplies etc.	Multiprocessor Systems **cost less** than equivalent multiple single processor systems because they uses same resources on sharing basis.
Reliability	**Less reliable** because failure in one processor will result in failure of entire system.	**More reliable** because failure of one processor does not halt the entire system but only speed will be slow down.

Parallel Processing And Mediumscale Multiprocessors

Tony F. Chan

Parallel Processing And Mediumscale Multiprocessors:

Parallel Processing and Medium-scale Multiprocessors Arthur Wouk,1989-01-01 Mathematics of Computing Parallelism

Hypercube Multiprocessors, 1987 Michael T. Heath,1987-01-01 Proceedings Parallel Computing **SIAM Journal on Matrix Analysis and Applications** ,1989 Contains research articles on linear algebra with emphasis on applications and numerical procedures These applications include such areas as Markov chains networks signal processing systems and control theory mathematical programming economic and biological modeling and statistics and operations research

Parallel Computing 85 Manfred Feilmeier,Gerhard Robert Joubert,Udo Schendel,1986 Proceedings Parallel Computing

SIAM Journal on Scientific and Statistical Computing Society for Industrial and Applied Mathematics,1990 Scientific and Technical Aerospace Reports ,1988 **The Cumulative Book Index** ,1990 A world list of books in the English language Second International Conference on Mathematical and Numerical Aspects of Wave Propagation Ralph Kleinman,1993 **Graph Theory, Combinatorics, Algorithms, and Applications** Y. Alavi,1991 The Conference participants included research mathematicians and computer scientists from colleges universities and industry representing various countries China which hosted the First International Conference in 1986 is particularly well represented The 58 contributions to this proceedings v **Optoelectronic Interconnects and Packaging** Ray T. Chen,Peter S. Guilfoyle,1996 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

SIAM Journal on Computing Society for Industrial and Applied Mathematics,1989 **Third International Symposium on Domain Decomposition Methods for Partial Differential Equations** Tony F. Chan,1990 **12th IMACS World Congress, July 18-22, 1988, Paris, France** Robert Vichnevetsky,Pierre Borne,J. Vignes,1988 *Proceedings of the Sixth Workshop on Algorithm Engineering and Experiments and the First Workshop on Analytic Algorithmics and Combinatorics* ACM Special Interest Group for Algorithms and Computation Theory,Society for Industrial and Applied Mathematics,2004 The aim of the annual ALENEX workshop is to provide a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures This research presents significant studies in experimental analysis or in the implementation testing and evaluation of algorithms for realistic environments and scenarios The paper presentations address specific applied areas that present unique challenges in their underlying algorithmic problems as well as methodological issues and standards in the context of empirical research on algorithms and data structures analysis of algorithms and associated combinatorial structures The papers study properties of fundamental combinatorial structures that arise in practical computational applications such as permutations trees strings tries and graphs and address the precise analysis of algorithms for processing such structures including average case analysis analysis

of moments extrema and distributions and probabilistic analysis of randomized algorithms This proceedings collects extended versions of the 14 papers that were selected for presentation from the ALENEX workshop and 10 papers selected for presentation from the ANALCO workshop **Research in Progress in Applied Mathematics, Numerical Analysis, and Computer Science** ,1990 *Mathematical and Numerical Aspects of Wave Propagation Phenomena* Gary C. Cohen,Laurence Halpern,Patrick Joly,Institut national de recherche en informatique et en automatique (France),Society for Industrial and Applied Mathematics,1991 **Research Conducted at the Institute for Computer Applications in Science and Engineering in Applied Mathematics, Numerical Analysis and Computer Science** ,1987 Cumulative Reports and Publications Through December 31, 1989 ,1990 Multiprocessor Performance Measurement and Evaluation Laxmi N. Bhuyan,Xiaodong Zhang,1995 *Solving Problems on Concurrent Processors* Geoffrey C. Fox,Ian G. Angus,1990 This volume I concentrates on practically motivated model problems which serve to illustrate generic algorithmic and composition techniques

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