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*Chap#01*
Motivating Parallelism:
-> Developing parallel hardware and software has
-> Developing parallel hardware and software has traditionally been time and effort intensive.
• Need for porallelism:
-> Advances in microprocessor technology-
-> Clock rate 40 MHz -> 2.0 GHz.
-> Cycle per instructions have increased.  -> Processors capable to run multiple instructions
in same cycle.
1 3001/6 04 000
concurrency is one solution but results
în problems like:
· Multiplicity of data paths.
· Increased access to storage elements.
· Scalable performance.
· Lower costs.
• Moore's Law:
-> Proposed by Gorden E. Moore in 1965 and
sevised in 1975. It states:
Processing speed, or overall processing power
for computers will double every 18 months.
(OR more technically)  The number of transistors on an affordable
CPU would double every two years."
To the state of th
Q: WILL Moore's law hold forever?
· Adding multiple cores on single allo
heat issues.

moreover, transisters would eventually reach the cimits of miniaturization at atomic levels.  So we must look for efficient parallel computational needs.	-
- So we at atomic levels.	-
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> So we	
software solubilities for efficient parallel	
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computational to fulfill our future	urasuri de l'A
needs.	
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Parallel Platforms:  → Parallel platforms provider victory	
-> Parallel provide	-
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> Porallel platforms:  > Porallel platforms also provide increased bandwid  > Parallel platforms also provide increased bandwid  > Parallel platforms also have ability to pump  data to memory and disk foster.	th
data to playforms also have	-
data to memory and disk foster.  Distributed and disk foster.	
Distributed	
Distributed Systems Distributed a	
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the productivity.	_
Parallel compuling" Distributed compuling	_
-> The term is used for -> This type is mainly	-
developing concurrent concerned with developing.	
solutions for following algorithms for the	
o Multi-core architecture. Here distributed means a	
@ 9PU's. geographical distance b/w	
computers with any	
shared-memory.	W.
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