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(54) METHOD AND APPARATUS FOR VARYING ENERGY PER INSTRUCTION ACCORDING TO THE AMOUNT OF AVAILABLE

PARALLELISM (75) Inventors: Edward Grochowski, San Jose, CA (US); John Shen, San Jose, CA (US); Hong Wang, Fremont, CA (US); Doron

> Orenstein, Haifa (IL); Gad S. Sheaffer, Haifa (IL); Ronny Ronen, Haifa (IL); Murali M. Annavaram, Santa Clara,

CA (US)

Correspondence Address:

BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030 (US)

(73) Assignee: Intel Corporation

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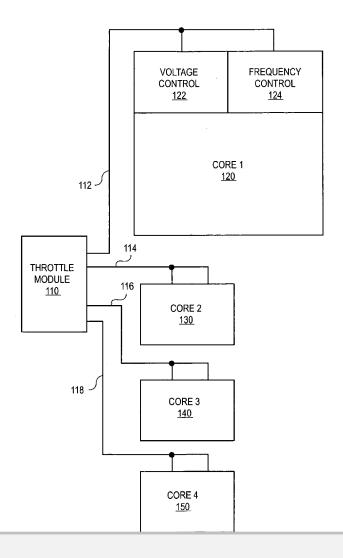
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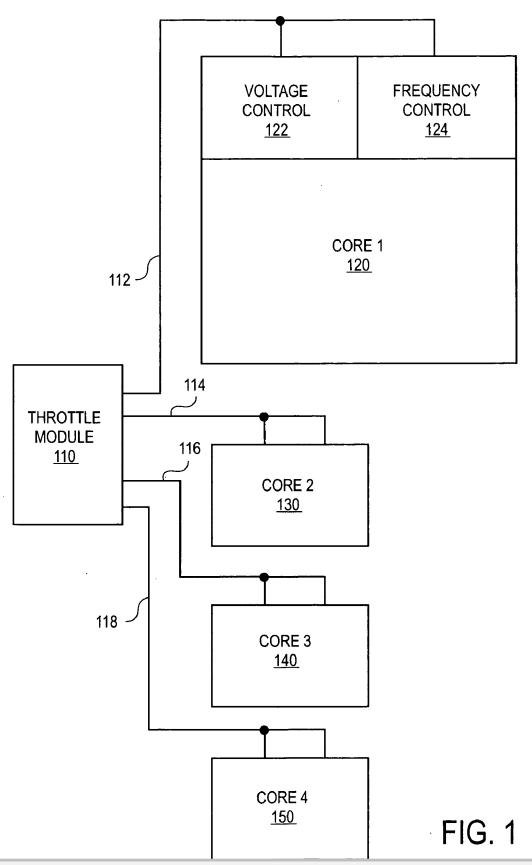
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(57)**ABSTRACT**

A method and apparatus for changing the configuration of a multi-core processor is disclosed. In one embodiment, a throttle module (or throttle logic) may determine the amount of parallelism present in the currently-executing program, and change the execution of the threads of that program on the various cores. If the amount of parallelism is high, then the processor may be configured to run a larger amount of threads on cores configured to consume less power. If the amount of parallelism is low, then the processor may be configured to run a smaller amount of threads on cores configured for greater scalar performance.









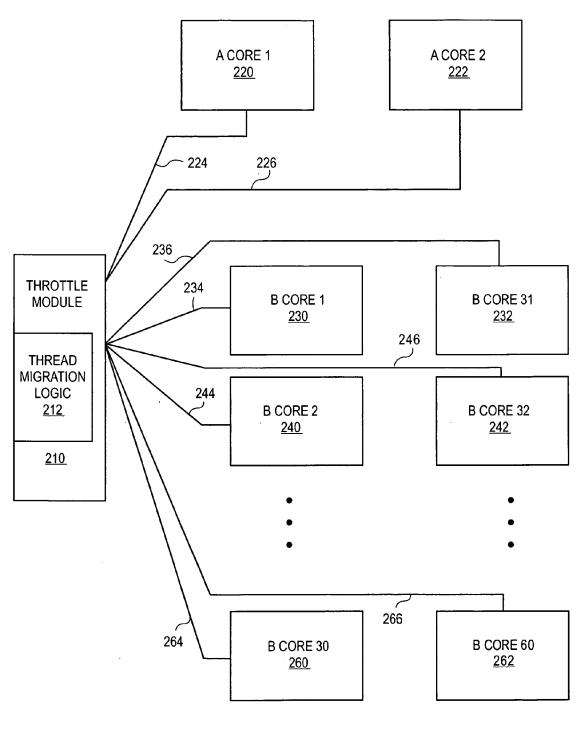
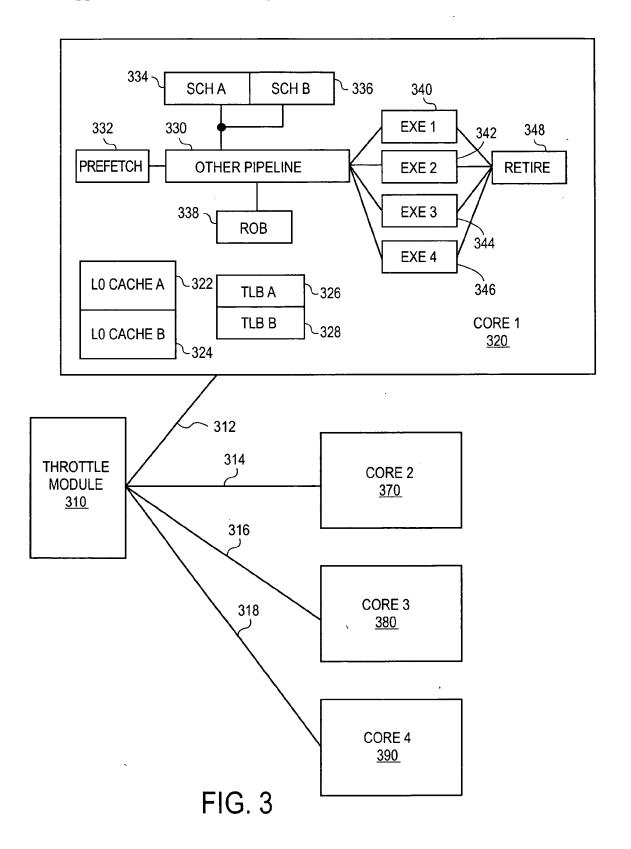
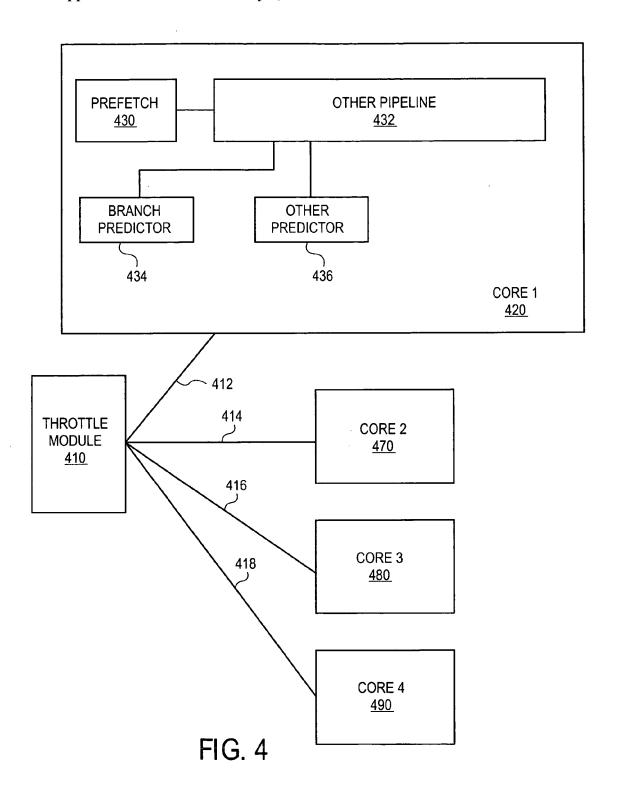


FIG. 2





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