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(54) **Title**: METHOD AND SYSTEM FOR BUILDING A LOW POWER COMPUTER SYSTEM

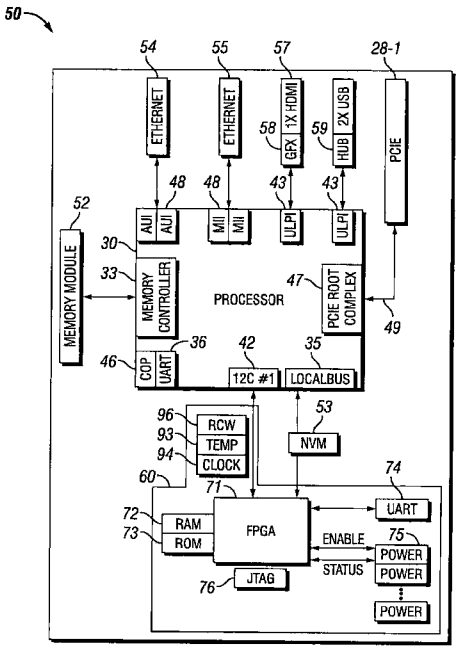


FIG. 4

(57) **Abstract**: Various embodiments disclosed herein relate to an efficient computer server system comprising an efficient power supply unit utilizing a plurality of power-rails to supply electric power to the system components, a special-purpose processor configured to operate as an efficient general purpose server processor while maintaining high performance, and a platform manager configured to control the power supplied to the system components to minimize the system's overall power consumption. Some disclosed embodiments relate to a method of reducing power consumption in information handling server systems comprising configuring a special-purpose processor to be function as a general purpose server processor, selecting a set of power efficient system components based on performance and power efficiency, utilizing an efficient power supply unit and a platform manager to control the power supplied by the power supply unit, and adjusting the processor's frequency to achieve an optimal performance/power-consumption ratio.

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**Declarations under Rule 4.17**:

— *as to the identity of the inventor (Rule 4.17(i))*

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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