

# High-Performance Energy-Efficient Microprocessor Design (Integrated Circuits And Systems)

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## **Gyungsu Byun MICS Lab ( ) -**

Mixed-signal Integrated Circuit and System Integrated Circuits and Systems Design; High Performance Mixed-Signal/Analog IC Energy-Efficient Memory and Multi  
<http://lyle.smu.edu/~gsbyun/>

## **Anantha Chandrakasan - Home -**

micro-power digital and mixed-signal integrated circuit design, wireless microsensor system design, Design of High-Performance Microprocessor  
<http://www-mtl.mit.edu/~anantha/>

## **What is integrated circuit (IC)? - Definition from -**

An integrated circuit timer, counter, computer memory, or microprocessor. A particular IC is categorized as either linear called low (logic 0) and high  
<http://whatis.techtarget.com/definition/integrated-circuit-IC>

## **Presentation "1 Intel Labs July 5, 2005 -**

high-performance energy-efficient design Energy-efficient power Design, 1999- Custom Integrated Circuits 516 VLSI System Design and Design  
<http://slideplayer.com/slide/5194102/>

## **High- Performance Energy- Efficient -**

High-Performance Energy-Efficient Microprocessor Design by Vojin G Integrated Circuits and Systems. . High-Performance System Design: Circuits and Logic.  
<http://www.alibris.com/High-Performance-Energy-Efficient-Microprocessor-Design/book/9843252>

### **UC Berkeley Power Electronics Group -**

Low-Voltage/Low-Power Integrated Circuits and Systems Y: overall efficiency and robustness of high-performance microprocessor design is

<http://power.eecs.berkeley.edu/index.shtml>

### **Mixed-signal integrated circuit - Wikipedia, the -**

an analog-to-digital converter is a mixed-signal circuit. Mixed-signal circuits or systems are energy efficient of Mixed-Signal Circuit Design,

[http://en.wikipedia.org/wiki/Mixed-signal\\_integrated\\_circuit](http://en.wikipedia.org/wiki/Mixed-signal_integrated_circuit)

### **AMD Phenom II Processors -**

High performance (128bit internal Quick access times to system I/O for better performance. Integrated DRAM Controller with AMD Energy Efficient AMD Phenom

<http://www.amd.com/en-us/products/processors/desktop/phenom-ii>

### **List of CPU power dissipation figures - Wikipedia, -**

Hyper Threading and a much higher thermal design power. Due to the high high power consumption of the CPU. energy efficiency and a better performance

[http://en.wikipedia.org/wiki/List\\_of\\_CPU\\_power\\_dissipation\\_figures](http://en.wikipedia.org/wiki/List_of_CPU_power_dissipation_figures)

### **The History of the Integrated Circuit - Nobel -**

games and the operating system. Integrated circuits are also found in almost every can provide enough energy to fire of the Integrated Circuit.

[http://www.nobelprize.org/educational/physics/integrated\\_circuit/history/](http://www.nobelprize.org/educational/physics/integrated_circuit/history/)

### **VIA Nano Processor - VIA Technologies, Inc -**

VIA's current product portfolio consists of individual components for high performance performance and energy efficiency. performance overall. The VIA Nano

<http://www.via.com.tw/en/products/processors/nano/>

### **Electrical and Computer Engineering | Electrical -**

The field of electrical and computer engineering is revolutionizing technology and Computer Systems; Faculty Research Energy; Integrated Circuits; Materials

<http://eecs.oregonstate.edu/future-students/undergraduate/programs/electrical-computer-engineering>

### **MIT Energy- Efficient Circuits and Systems -**

Integrated Circuits and Systems Energy-Efficient Circuits and Systems Group led by Prof. Anantha Chandrakasan is involved with the design and implementation

<http://www-mtl.mit.edu/researchgroups/icsystems/>

### **Special Issue on Energy Efficient Multi-Core and -**

of the next generation of high-performance as well as silicon system design and optimization; Energy-efficient circuits; Energy Efficient defect

<http://www.journals.elsevier.com/journal-of-parallel-and-distributed-computing/call-for-papers/special-issue-on-energy-efficient-multi-core-and-many-core-s/>

### **Ultra Low Power, High Performance Microprocessor -**

An ultra low power microprocessor core with high performance will For these electronic systems, the energy of ultra low power integrated circuits.

<http://www.sbir.gov/sbirsearch/detail/1659>

### **Download Ebook High Performance Energy Efficient -**

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[http://www.dailymotion.com/video/x26n18e\\_download-ebook-high-performance-energy-efficient-microprocessor-design-vojin-g-oklobdzija-pdf-epub\\_music](http://www.dailymotion.com/video/x26n18e_download-ebook-high-performance-energy-efficient-microprocessor-design-vojin-g-oklobdzija-pdf-epub_music)

### **High- Performance EnergyEfficient Microprocessor -**

High-Performance EnergyEfficient Microprocessor that a circuit has been designed initially for high Energy-Efficient Design of Digital

<http://citeseerx.ist.psu.edu/showciting?cid=11956659>

### **ACSEL-Advanced Computer Systems Engineering -**

High Performance Adder: Low Power IC Design: Cryptography and System Architecture. ACSEL is engaged in Technical Consulting and Expert Energy Efficient Circuits

<http://acsel-lab.com/>

### **Design of Energy Efficient Digital Circuits - -**

Series on Integrated Circuits and Systems the design of energy-efficient digital circuits.

Comparison of High-Performance VLSI Adders in Energy

[http://link.springer.com/chapter/10.1007/978-0-387-34047-0\\_2](http://link.springer.com/chapter/10.1007/978-0-387-34047-0_2)

### **High Performance Integrated Circuits and Systems -**

Research Group at Universitat Polit cnica de Catalunya HIPICS research group page.

Welcome to the website of the High Performance Integrated Circuits and Systems

<http://hipics.upc.edu/>

### **Optimize: Streamline Performance Analyzer | ARM -**

Cortex-M processors and Mali GPUs with Streamline performance enabling a new breed of high performance, energy efficient CPU and GPU Game Performance on

<http://ds.arm.com/ds-5/optimize/>

### **Atmel SMART ARM-based MCUs -**

all your design needs by offering high efficiency, unparalleled performance and integrated Atmel ARM-based MCUs are CPU Core High Performance Touch

<http://www.atmel.com/products/microcontrollers/arm/default.aspx>

### **Integrated Circuits - EEM -**

A Hybrid Integrated Circuit, IC Switching Voltage Regulators are integrated circuits (ICs) that store energy in an inductor, High-Performance 32-bit V850ES MCUs

[http://www2.eem.com/Integrated\\_Circuits.aspx](http://www2.eem.com/Integrated_Circuits.aspx)

### **Microprocessor - Wikipedia, the free encyclopedia -**

or at most a few integrated circuits. The microprocessor is a of high performance, CPU dies and was less efficient than AMD's native design.

<http://en.wikipedia.org/wiki/Microprocessor>

### **Improving performance and energy consumption in -**

Improving performance and energy consumption in embedded microprocessor Design of Integrated Circuits and Systems, high performance and energy efficiency

<http://dl.acm.org/citation.cfm?id=1228784.1228792>

### **Resilient microprocessor design for high -**

Gain cell embedded DRAMs are twice as dense as 6T SRAMs, are logic compatible, have decoupled read and write paths providing good low voltage margin, and can drive

<http://dl.acm.org/citation.cfm?id=1840919>

### **Integrated Circuits - Ansys -**

ANSYS power solutions for integrated circuits address this full spectrum of ANSYS solutions for integrated circuit design High Performance

<http://www.ansys.com/Products/Simulation+Technology/Electronics/Integrated+Circuits>

### **Toshiba Licenses ARM Cortex-A53 High- performance -**

Jul 29, 2015 Toshiba Licenses ARM Cortex-A53 High-performance Microprocessor offer well balanced power-efficiency and performance with 64 Energy

<http://www.businesswire.com/news/home/20150729006922/en/Toshiba-Licenses-ARM-Cortex-A53-High-performance-Microprocessor>

### **Design of High- Performance Microprocessor -**

Design of High-Performance Microprocessor Design of Integrated Circuits and Systems, the energy -efficiency of the I/O circuits and

<http://citeseerx.ist.psu.edu/showciting?cid=160236>

### **High- Performance Arithmetic Challenges: From -**

Mathew, Shekhar Borkar Microprocessor Energy-efficient high-performance AGU/ALUs 4GHz Sparse-tree AGU Design 6.5-10GHz Integer ALU Design Summary Motivation

<http://slideplayer.com/slide/1510234/>

### **High- performance energy- efficient -**

High-performance energy-efficient microprocessor design. Design and construction. High performance computing # Series on integrated circuits and systems.

<http://www.worldcat.org/title/high-performance-energy-efficient-microprocessor-design/oclc/71341704>

### **Analysis of Buck Converters for On-Chip -**

exist within high performance microprocessor integrated energy model, a design dc converter circuit topology with high efficiency and good

<http://ihome.ust.hk/~eekursun/papers/j1.pdf>

### **Integrated Designs | Essential services for -**

High-Performance Design; Energy Management; Work; Ideas; The integrated design process was developed specifically to deliver high About Integrated Designs Inc.

<http://www.i-designs.ca/>

### **The Future of Microprocessors | May 2011 | -**

and extreme-energy-efficient systems with greater energy efficiency. In extreme cases, high-performance for Microprocessor Performance

<http://cacm.acm.org/magazines/2011/5/107702-the-future-of-microprocessors/fulltext>

### **Advanced circuit techniques for high- performance -**

Power, Energy, & Industry high-performance microprocessor design; interconnect scaling; Energy efficiency; Frequency; Integrated circuit interconnections;

[http://ieeexplore.ieee.org/xpl/abstractKeywords.jsp?reload=true&arnumber=1241557&filter%3DAND%28p\\_IS\\_Number%3A27830%29](http://ieeexplore.ieee.org/xpl/abstractKeywords.jsp?reload=true&arnumber=1241557&filter%3DAND%28p_IS_Number%3A27830%29)

### **MICROPROCESSOR TEST -**

"High-Performance Energy-Efficient Microprocessor integrated circuits (ASICs). Design Design of High-Performance Microprocessor

<http://avxsearch.se/?q=MICROPROCESSOR%20TEST>

### **AMD Discloses Architecture Details of High- -**

AMD Discloses Architecture Details of High-Performance, Energy-Efficient Carrizo System-on-Chip (SoC) design, AMD microprocessor. However, the energy <http://www.amd.com/en-us/press-releases/Pages/amd-discloses-architecture-2015feb23.aspx>

### **IEEE Xplore Abstract - Resilient microprocessor -**

Resilient microprocessor design for high performance & energy efficiency design. The microprocessor core supports circuits guide an

[http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=5599047&sortType%3Dasc\\_p\\_Sequence%26filter%3DAND%28p\\_IS\\_Number%3A5598990%29%26pageNumber%3D3](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=5599047&sortType%3Dasc_p_Sequence%26filter%3DAND%28p_IS_Number%3A5598990%29%26pageNumber%3D3)

### **ENERGY STAR Most Efficient 2014 - Boilers -**

Up to 96 AFUE is enhanced with unique low idle loss integrated heat and hot water design. energy saving performance. high efficiency boiler features a [https://www.energystar.gov/index.cfm?c=most\\_efficient.me\\_boilers](https://www.energystar.gov/index.cfm?c=most_efficient.me_boilers)