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Digital Enterprise Group

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Sales and Marketing
New Intel Labs Organization

Inte Labs
Justin Rattner

Circuits & Systems Research
Future Technologies Research
Integrated Platforms Research

Microprocessor & Programming Research
Intel China Research Center
To *fuel Intel’s growth*, we deliver *breakthrough technologies* that bring the *benefits* of the ongoing digital revolution to *everyone*. 
~1000 Researchers @10 Sites Worldwide
~1000 Researchers @10 Sites Worldwide

Plus Snapshot of Academic Collaborators

Americas
- University of Illinois at Urbana-Champaign
- University of California at Berkeley
- University of Michigan
- McGill University
- Massachusetts Institute of Technology
- Universidade Federal do Rio de Janeiro
- CINVESTAV Unidad Guadalajara Instituto

Europe, Middle East
- INSE, INRIA
- Technische Universität Braunschweig
- Trinity College Dublin
- Universita’ di Bologna
- University of Jordan
- Gdansk Technical University
- St Petersburg University of Aerospace Instrumentation
- University of Oxford
- Bogazici University

Asia
- Tsinghua University
- Fudan University
- Indian Institute of Technology
- Kobe University
- Universiti Teknologi Malaysia
- University of the Philippines
- Korea Advanced IST
- National Taiwan University

Intel Labs

Research Partners

Academic Collaborators
Research at a Glance

- People and Practices
- Immersive Connected Experiences
- Si Photonics
- Mobility and Communications
- Health and DNA Sequencing
- Eco Innovation & Energy Efficiency
- Trust and Privacy
- Enterprise and Cloud
- Terascale to Exascale
- Everyday Sensing and Perception

And much more…….
Eco Innovation and Energy Efficiency

Delivering robust platform power management solutions

Moorestown Power Reduction

Up to 50X Improvement in Moorestown Over Menlow

Power (mW) Platform Power Progression

- Menlow
- Moorestown

Standby: Assuming S0i3, 38mW with S0i1

MRST Projection: Workloads were emulated on McCaslin(GreenCanyon CRB-XP-600MHz-DTN-512MB memory-32GBSSD) and cross checked on some data points with Menlow(Crownbeach CRB, SLT-1GHz, 512MB memory, 32GB SSD). CPU, Memory and CS power data was analyzed with C-state, P-state residencies, Memory Bandwidth and power data points were studied and scaled where appropriate to MRST architecture. Assuming Native MIPI display and LPDDR1 memory (32b, 400MTs)
Immersive Connected Experiences
Making 3D Internet a Reality

ScienceSim.com - Prototyping the 3D Internet

Linking multiple virtual worlds for immersive scientific collaboration, visualization and education

1. A research platform
2. Based on OpenSim
3. Industry/academic collaboration
4. Featured at SuperComputing ‘09
New Open Collaborations

Fostering open collaborative research with academia and industry

Open Cirrus Cloud Computing Testbed

Shared research, apps, data sets, infrastructure (11K cores)
Global services: sign on, monitoring, store.
Open src stack (prs, tashi, hadoop)
9 sites currently, target of around 20 in the next two years.

Intel Visual Computing Institute

$12 Million over 5 years

With Partners

[Map with various logos and institutions]
MEET OUR REAL ROCK STARS

THE BODYGUARDS ARE GONE.

HERE'S YOUR CHANCE TO GET CLOSE TO FIVE LIVING, BREATHING INTEL VISIONARIES.