News Fact Sheet

3rd Generation Intel® Core™ vPro™ Processor Family
Delivers Security and Performance Improvements

May 15, 2012 — Intel Corporation announced the availability of the 3rd generation Intel® Core™ vPro™ processor family, formerly codenamed "Ivy Bridge," for business laptops, desktop PCs and Ultrabook™ devices. Featuring the performance and graphics improvements available on 3rd generation Intel® Core™ processors, the new processor platform provides businesses the security, performance and form factor improvements needed to compute with confidence. Additionally, Intel Core vPro processor-based platforms make the most of embedded security by allowing businesses to protect themselves in four ways: threat management; identity and access; data protection; and monitoring and remediation.

New capabilities in the 3rd generation Intel Core vPro processor platform include:

Security: Integrating software and hardware
The 3rd generation Intel Core vPro processor-based platforms provide a holistic security approach that integrates hardware and software solutions to protect businesses, and introduces features such as encryption, user identity protection and the ability to lock lost or stolen devices.

- **Intel® Identity Protection Technology (Intel® IPT)** provides hardware-level protection for e-banking, e-commerce, virtual private networks and other secure transactions. Intel IPT uses a one-time password (OTP), also used in key fobs and discrete tokens, and integrates OTP algorithms into Intel chipsets. New features include:
- **Intel IPT with public-key infrastructure (PKI)** introduces a second factor of authentication embedded into the PC that enables businesses, governments or websites to validate that a legitimate user (i.e., not malware) is logging in from a trusted PC. This Embedded PKI solution uses a private key stored in the PC's firmware for a more secure way for an authorized user to authenticate to your business or government network via VPN, encrypt/decrypt your most sensitive documents or emails, digitally sign sensitive documents or emails, or authenticate to websites via SSL. Intel IPT creates a non-spoofable trusted path for user input and display output. This allows businesses, governments or service providers to verify end user presence and identification needed for access or transaction integrity and non-repudiation. For example, verifying that the user actually provided the PIN and not a malware which previously stole it via a key-logger. Intel® IPT with PKI is available in 2012 through Symantec Managed PKI-A Scalable Cloud Solution for Enterprises
- **McAfee ePolicy Orchestrator (ePO) Deep Command** is an extension of McAfee's leading endpoint security management offering that provides customers with remote security management access to a PC that is powered off or disabled. Using Intel® Active Management Technology (AMT), McAfee ePO Deep Command enables an IT professional to remotely fix compromised PCs and apply security patches.
- **Intel® Secure Key** is a hardware-based random number generator available on all 3rd generation Intel® Core™ processors that enables secure encryption for a number of applications including WinZip, Symantec and PGP.
- **Intel ® OS Guard** is also available on all 3rd generation Intel Core processors and protects the operating system (OS) from applications that have been tampered with or hacked by preventing an attack from being executed from application memory. Intel OS Guard also protects the OS from malware by blocking application access to critical OS vectors.

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Manageability: Improving IT Tools for Troubleshooting

3rd generation Intel Core vPro processor-based platforms provides IT professionals inside and outside the business organization with capabilities to remotely manage PC functions and fulfill help desk requests.

- **Intel® AMT 8.0** is now available on Ultrabook devices, tablets and all-in-one PCs in addition to laptops, desktops and workstations, thereby enabling remote PC management even when the PC is powered off.
  - o **Setup and Configuration Software 8.0** allows for Intel Core vPro processor-based PCs to be set up and configured as easily as sending a remote patch.
- **Keyboard, Video and Mouse (KVM) Remote Control** enables an IT administrator to view and control an employee's PC desktop remotely in order to fix technical issues. KVM Remote Control now supports resolutions of up to 1920x1200 and enables IT professional to switch between portrait and landscape views as well as display up to three screens at the same time. KVM Remote Control now also supports 27 languages.
- **Intel vPro Technology module for Microsoft Windows Powershell** enables IT shops to manage Intel vPro-based clients remotely.
- **Accenture ARROW:** To maximize IT support and the growing trend of user-based self-support, Accenture and Intel worked together to provide one-click, 24x7 computer diagnostics and repair services to enterprise clients by virtually transporting technicians to remote PCs using ARROW (Accenture Remote Resolution Online Workforce solution). Solutions such as Accenture's ARROW will enable a new level of self-support that gives everyone what they need most —faster resolution of issues and return to productivity.

Performance, Graphics and Responsiveness

Based on Intel's 22nm microarchitecture, the 3rd generation Intel Core vPro processor:

- Increases application performance by 10-20 percent over previous generations[1].
- Will be available in Ultrabook devices later this year for business use.

Graphics enhancements have improved the high-definition (HD) video experience while features available on all 3rd generation Intel Core processors boost response time.

- **Intel® Clear Video HD Technology**, which enables rich media experiences by using advance graphics technologies to optimize HD video playback, now supports HD video conferencing as enabled by Intel® Media SDK 3.0.
- **Intel® Smart Response Technology** delivers ultra-quick access to applications and files that the user specifies.
- **Intel® Rapid Start Technology** gets devices up and running faster, thereby saving time and battery life.
- **Intel® Smart Connect Technology** automatically updates email and social networks so they are ready to go when the user needs them.

About Intel

Intel (NASDAQ: INTC) is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. Additional information about Intel is available at newsroom.intel.com and blogs.intel.com.

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[1] Intel® Core™ i5 or i7 processor must be paired with Q67, QM67 or QS67 chipset