

Top 10 Reasons for Government Agencies to Buy Systems Based on AMD Technology

1. AMD is a strong advocate of fair and open competition, and the resulting value that competition can deliver to government.

- Competitive pricing, product innovation and performance improvements result from fair and open competition procurement practices.
- Fair and open competition in government procurement contracts can save governments worldwide an estimated millions of dollars each year on technology purchases.

2. Energy conservation is on the minds of citizens and governments around the world. Platforms based on AMD technology can contribute to high energy efficiency for your agency.

- AMD Opteron™ processors provide industry-leading performance-per-watt, which helps keep energy and overhead costs low.
- AMD dual-core processors run in the same power envelope as comparable single-core processors, delivering an easy upgrade path to dual-core computing and improved performance-per-watt.
- AMD PowerNow!™ technology provides dynamic power management which delivers performance on demand and can reduce CPU power consumption when full performance is not needed.

3. Systems based on AMD processors can help consolidate resources, reduce complexity and simplify the management of your datacenter. This can help you increase your agency's productivity and achieve low operating costs. AMD dual-core technology:

- Enables fewer servers to meet the needs of multiple applications, compared to comparable single-core processors.
- Provides a high degree of flexibility and server density so you can consolidate diverse workload requirements and fight server sprawl while still maintaining high performance.
- Allows you to run virtualization software that can partition a server into several “virtual machines,” allowing you to consolidate and manage multiple operating systems (including Microsoft® Windows®, Linux® and Solaris operating systems) and mission-critical applications on a single server platform.

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4. Government agencies require some of the most demanding IT environments. Systems based on AMD dual-core processors allow you to build a high-performance, efficient infrastructure. Compared to comparable single-core processors, AMD dual-core processors:

- Increase performance significantly without increasing the computing footprint.
- Allow your systems and applications to do more in less time and enable you to get more computing power from fewer computers.
- Can improve system efficiency and application performance for compute-intensive applications and computers running multiple applications at the same time.
- Provide support for more users or tasks for transaction-intensive applications.

5. Now more than ever, government agencies need continuity of operations. When it comes to protecting your agency's mission critical applications against downtime threats, you can rely on AMD technology to help ensure your IT environment remains up and running.

- The AMD Opteron processor is designed for system stability and outstanding performance to help ensure that your IT environment continues to remain up and running.

6. Using systems based on AMD technology can help your agency make the most of taxpayer dollars and protect your IT investments.

- AMD64 technology can simplify IT investment planning and provide platform longevity by allowing you to grow into 64-bit computing without sacrificing your investments in existing hardware and software.
- AMD64 technology gives you the flexibility to migrate to 64-bit applications on your own schedule, while continuing to enjoy high performance on 32-bit applications today.

7. When you buy systems based on AMD technology, you can rest assured that your agency is receiving innovative, quality products that are widely adopted across the world.

- A recent Fortune magazine study recognized AMD as one of "America's Most Admired Companies 2006," rating AMD as #1 among all U.S. semiconductor companies in both "Innovation" and "Quality of Products/Services." It also ranked AMD as a top 10 most admired U.S. company for innovation across all industries.
- Today, more than 90 percent of the top 100 and more than 55 percent of the top 500 of the Forbes Global 2000 companies or their subsidiaries are using AMD64 technology.

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8. Leading equipment manufacturers build systems based on AMD64 technology including:

- Acer
- Dell
- HP
- IBM
- Lenovo
- Sun

9. AMD processors are interoperable with thousands of x86 software applications and run major operating systems, including:

- Linux
- Microsoft Windows
- Sun Solaris

10. AMD recognizes that government agencies have security and identity management requirements. AMD64 processors can help your agency meet its security requirements by providing security capabilities for your datacenter applications, desktop and notebook computers.

- AMD Opteron processors, with Integrated Memory Controller, enhance virtualization and provide efficient isolation of virtual machine memory for improved security and support of virtual users.
- AMD64 processors feature the Enhanced Virus Protection (EVP) capability which, when combined with Microsoft Windows XP Service Pack 2 (SP2) and properly enabled, helps protect the computer's operating system and applications against certain malicious viruses, computer worms and Trojan horses.* Enhanced Virus Protection in combination with Windows XP SP2 sets portions of system memory aside as "data only," meaning that any code resident in these areas may not be executed, only read from or written to.

* Enhanced Virus Protection (EVP) is only enabled by certain operating systems including the current versions of Microsoft® Windows®, Linux®, Solaris and BSD Unix. After properly installing the appropriate operating system release, users must enable the protection of their applications and associated files from buffer overrun attacks. Consult your OS documentation for information on enabling EVP. Contact your application software vendor for information regarding use of the application in conjunction with EVP. AMD strongly recommend that users continue to use third party anti-virus software as part of their security strategy.

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