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Redesigned, Refined, and Supercharged: AMD Launches New Graphics Software, Radeon Software Crimson Edition

Fully Re-Architected Graphics Software Ushers in a New Era of Immersive Computing With Redesigned User Interface, Remarkable Features, Powerful Performance Boosts and Significant Power Savings for Gamers

SUNNYVALE, CA -- (Marketwired) -- 11/24/15 -- AMD (NASDAQ: AMD) today released its completely reimagined graphics software suite, Radeon Software Crimson Edition, giving users an exceptional new user experience, 12 new or enhanced features, up to 20 percent more graphics performance[1], adjustability that can nearly double generational energy efficiency[2], and rock-solid stability across the full spectrum of AMD graphics products. The release is the first from the Radeon Technologies Group, which recently announced a renewed focus on software placing it on par with hardware initiatives.

"As the primary way that people interact with our products, our software deserves to be viewed as a top priority, and going forward that's exactly what we're doing, delivering easy-to-use software that is packed with real user benefits, starting with Radeon Software Crimson Edition," said Raja Koduri, senior vice president and chief architect, Radeon Technologies Group. "Radeon Technologies Group is laser-focused on the vertical integration of all things graphics, propelling the industry forward by driving performance per watt, creating innovative technologies and ensuring that the software supporting our GPUs is world class."

Radeon Software Crimson Edition includes:

- ***Radeon Settings - A new, streamlined user interface:*** Engineered to get the best performance on AMD graphics hardware, the user-friendly and feature-rich Radeon Settings is lightning fast, starting up 10 times faster[3] and initializing displays three times faster[4] than the AMD Catalyst™ driver. It also offers more intuitive navigation, a new game manager, new overdrive, and new video, display and AMD Eyefinity technology sections letting users easily apply game settings, adjust performance settings, and apply various features and configurations to their computing experience.
- ***12 new or enhanced features:*** A wide range of new and augmented capabilities help ensure that users enjoy the best experience possible across gaming, video and productivity applications.
- ***Supercharged performance and energy efficiency:*** Radeon Software Crimson Edition enables up to 33 percent faster game load times[5], up to 20 percent more game performance[1], and up to 1.8 times more energy efficiency capability[2] than its

predecessor which can increase system performance-per-watt by as much as 23 percent.[6]

- ***First public support of AMD LiquidVR™ technology:*** GCN's Asynchronous Compute Engine helps to dramatically improve frames per second (FPS), responsiveness and latency in Virtual Reality applications for an exceptionally smooth gaming experience on all GCN-based hardware.
- ***Seamless stability:*** With twice the number of test cases across 15 percent more system configurations than AMD Catalyst™ Omega, and the implementation of a huge number of community-driven requests, Radeon Software Crimson Edition delivers exceptional stability across a range of experiences.

Radeon Software Crimson Edition is available for free download today at http://support.amd.com/en-us/download.

Supporting Resources

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About AMD

For more than 45 years, AMD has driven innovation in high-performance computing, graphics, and visualization technologies -- the building blocks for gaming, immersive platforms, and the datacenter. Hundreds of millions of consumers, leading Fortune 500 businesses, and cutting-edge scientific research facilities around the world rely on AMD technology daily to improve how they live, work, and play. AMD employees around the world are focused on building great products that push the boundaries of what is possible. For more information about how AMD is enabling today and inspiring tomorrow, visit the AMD (NASDAQ: AMD) website, blog, Facebook and Twitter pages.

1. AMD Internal Lab testing as of Oct 22, 2015 with an Intel Core i7 5960X with 2x8GB DDR4-2666 MHz memory, Gigabyte X99-UD4PC, AMD Radeon™ R9 Fury X, Windows 10 64bit. PC manufacturers may vary configurations yielding different results. Fable Legends @ 1080p scored 63.99 fps with AMD Catalyst™ 15.7.1 Driver and 76.88 fps with Radeon Software Crimson Edition. RS-2

2. AMD Internal Lab testing as of Nov 2, 2015 with an Intel Core i7 5960X with 2x8GB DDR4-2666 MHz memory, Gigabyte X99-UD4, AMD Radeon™ R9 380, Windows 10 64bit. PC manufacturers may vary configurations yielding different results. Frame Rate Target Control (FRTC) enables users to set a target maximum frame rate when playing an application in full screen mode, thereby reducing GPU power consumption, heat generation and fan speeds/noise. FRTC caps performance not only in 3D rendered in-game scenes, but also in splash screens, loading screens and menus. See http://www.amd.com/en-us/innovations/software-technologies/technologies-gaming/frtc for full details on FRTC. Rocketleague at 1080p Max quality consumed 180W using AMD Catalyst 15.7.1 Driver, 175W with Radeon Software Crimson Edition, and 61W when using FRTC=55fps in Radeon Software Crimson Edition. RS-7

3. Testing conducted by AMD Performance Labs on October 26, 2015 using a HP Pavilion DM1 with AMD E-350 with AMD Radeon HD 6310 Graphics, 3GB (1GB+2GB) DDR3, Windows 10 64bit. With AMD Catalyst 15.8, the system took 8 seconds on average to load the control panel (AMD Catalyst Control Center). With Radeon Software Crimson Edition, the system took 0.6 seconds on average to load the control panel (Radeon Settings). RS-1

4. AMD Internal Lab testing as of Nov 2, 2015 with an AMD Phenom X4 1090T with 2x4GB DDR3-1066 MHz memory, AMD Radeon™ R9 280X, Windows 8.1 64bit. PC manufacturers may vary configurations yielding different results. Display monitors took 11 seconds to initialize with AMD Catalyst 15.7.1 Driver and 3 seconds with Radeon Software Crimson Edition. RS-8

5. AMD Internal Lab testing as of Nov 2, 2015 with an Intel Core i7 5960X with 2x8GB DDR4-2666 MHz memory, Gigabyte X99-UD4, AMD Radeon™ R9 380, Windows 10 64bit. PC manufacturers may vary configurations yielding different results. *Star Wars*™ Battlefront™ took an average of 16.9 seconds to load the Endor Survival level with AMD Catalyst 15.7.1 Driver and 11.2 seconds with Radeon Software Crimson Edition. RS-6

6. AMD Internal Lab testing as of Oct 23, 2015 with an Intel Core i7 5960X with 2x8GB DDR4-2666 MHz memory, Gigabyte X99-UD4PC, AMD Radeon™ R9 Fury X, Windows 10 64bit. PC manufacturers may vary configurations yielding different results. Frame Rate Target Control (FRTC) enables users to set a target maximum frame rate when playing an application in full screen mode, thereby reducing GPU power consumption, heat generation and fan speeds/noise. FRTC caps performance not only in 3D rendered in-game scenes, but also in splash screens, loading screens and menus. See http://www.amd.com/en-us/innovations/software-technologies/technologies-gaming/frtc for full details on FRTC. Star Wars: The Force Awakens full screen trailer run in Windows 10 @ 1080p @ 24fps consumed 123W with AMD Catalyst 15.7.1 Driver and 102W with Radeon Software Crimson Edition for power savings of 21%. Bioshock Infinite benchmark at 4K Ultra consumed 262W with FRTC=60 with Radeon Software Crimson Edition and 322W with AMD Catalyst™ 15.7.1 Driver for power savings of 23%. RS-3

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Contact:
Antal Tungler
AMD Public Relations
Email Contact
(512) 602-7027

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