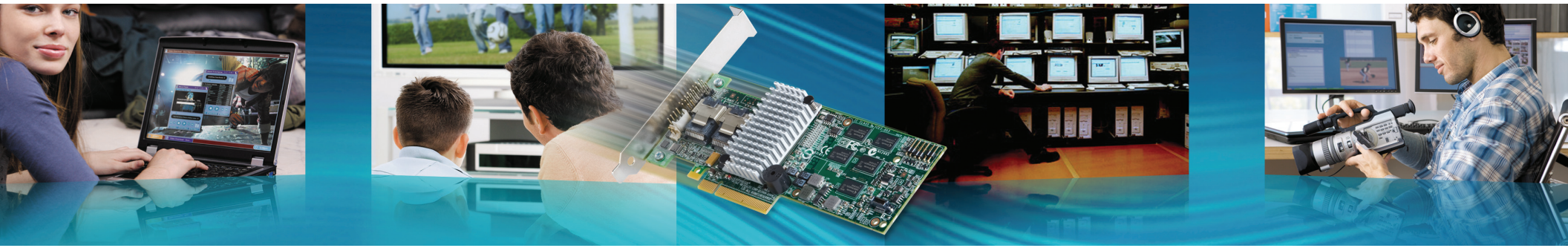
Intel® RAID Solutions for Your Video Creation and Editing Applications

Amplify. Optimize. Thrive. Do SAS-2/6G Storage Right.



With the film industry delivering new movies more frequently than in the past, film production studios face the pressures of more output more quickly, while keeping a close eye on the bottom-line. With the onset of popularity for 3D movies, efficiencies for stereoscopic workflows have multiplied these demands.

The Rush to Create, Capture, and Edit More Footage

The largest studios to the smallest independent production companies strive to create, capture, and edit the latest in high-end content, including uncompressed video streams, while minimizing frame drop out. There is huge efficiency when studios have the option to work with uncompressed files directly from storage systems versus having to compress files which can negatively affect image quality.

An optimal high-end workflow for a large production studio captures live footage at the uncompressed level as dual 4:2:2 or 4:4:4 SDI streams. Depending on the volume of footage, having the ability to access uncompressed files is highly desired by the entire facility in order to move through the creation process more quickly. Post production teams also desire the flexibility to work with uncompressed files directly from storage systems as they may need to render files quickly or create and edit visual/sound effects and route files for review to hit the next bid deadline more efficiently.

Intel® RAID Solutions Allow for Large Files to Be Processed Quickly

Intel SAS-2/6G RAID solutions are designed to move large amounts of data quickly, with performance, in terms of throughput, of up to 250% faster than previous (SAS-1) generation products. In addition, Intel RAID offers a multitude of configuration options in order to optimize video creation and editing systems to best match desired workflows. Intel RAID products are thoroughly tested with Intel® Server Boards and Intel® Server Systems based on the Intel® Xeon® processor in order to ensure that they can easily integrate within existing infrastructure based on other Intel® technologies. Intel RAID includes a single Web-based RAID software stack to support all products, so system builders can easily integrate and seamlessly deploy customer upgrades as required.

Amplify.
Supercharge storage with world-class performance, and simplified data protection across all RAID levels.

Optimize.
Reduces total cost of ownership by shopping Intel for servers and controllers.

Thrive.
Obtain the best tools, marketing support, and upgrades, such as Premium Features.

Custom training, as well as Intel® service and support, make Intel the one source for customers seeking data protection, increased productivity, and simplified IT. All Intel RAID solutions are validated across multiple platforms with Intel® boards, chassis, and systems.

Diverse Intel RAID Options for Video Creation and Editing Systems

System builders can unlock more business opportunities by addressing film studio needs for higher performance storage systems. Intel SAS-2/6G RAID solutions, powered by LSI MegaRAID, delivers a broad range of options so customers can benefit from significant performance improvements for both 3Gb/s and 6Gb/s SATA or SAS-based systems. When architecting storage solutions, system builders can choose from the following:

- **Intel® Embedded Server RAID Technology II:** Host-based RAID that uses the chipset, processors, and memory of the server board to provide basic data protection.
- **Intel® Integrated Server RAID:** Unique system boards that offer intelligent RAID protection for SAS and SATA hard disk drives.
- **Intel® RAID Controllers:** Standard add-in cards designed to provide a wide variety of RAID solutions for Intel® Server boards and systems.
- **Intel® Premium Feature Keys:** Unlock advanced software features to further enhance performance ad data protection of mainstream and scalable performance products.

Consider a Powerful Trio of Performance

Intel® Solid State Drives when combined with Intel RAID controllers and Premium Features offer significant performance advantages including I/O acceleration. Simply add at least one SSD to your array to improve performance, and reduce power consumption per IOP.

1. Intel Solid State Drives provide rugged and reliable storage performance. SSDs can reach up to 45,000 read IOPs compared to the fastest enterprise hard disk drives that can only reach up to 400 IOPs.
2. Intel® RAID Controllers lower total cost of ownership and provide simple, high-performance data protection for Intel® Server Boards and Systems based on the Intel® Xeon® processor.
3. SSD Cache and FastPath I/O, when combined with an SSD and RAID controller, can accelerate I/O and transactional performance of your array. FastPath I/O nearly doubles I/O performance with up to 150,000 I/O reads per second for SSDs.

TAKE THE NEXT STEP

For more information on architecting a storage solution using Intel® RAID Products, explore **www.intel.com/go/RAID**

To make Intel® RAID Controllers part of your server environment, please contact an Intel® Channel Partner Program Participant.

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