

LSI Logic's Integrated RAID Solutions

OVERVIEW

LSI Logic's Integrated RAID is a highly integrated, low cost RAID solution made possible by Fusion-MPT™ architecture. Integrated RAID is a processor-based, hardware RAID solution designed for system environments requiring redundancy and high availability where a full-featured RAID implementation is not desired or might be cost prohibitive. By providing RAID at the processor level, the CPU is off-loaded allowing for more efficient operation.

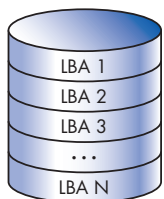
LSI Logic's advanced Integrated RAID includes Integrated Mirroring™ and Integrated Striping options. LSI Logic's Integrated Mirroring allows for fault tolerant, high availability data by simultaneously mirroring up to 2 drives. LSI Logic's Integrated Mirroring technology also extends mirroring capability to 6 drives for high-end applications, providing greater volume capacity. LSI Logic's write journaling feature allows for quick data recovery in the event of a failure by automatically verifying and maintaining that all drives in the Integrated Mirroring volume are synchronized and have identical data. In the event of a system failure, it performs an automatic resynchronization in the background while I/Os continue. LSI Logic's Integrated Striping is ideal for today's data intensive applications, such as video streaming and document imaging, that require greater system performance and storage efficiency with reduced latency of the drives. LSI Logic's Integrated Striping supports up to 6 drives. Integrated RAID is easy to install and configure. Other benefits include bootability, greater error protection, OS independence, and no need for special drivers.

FEATURES

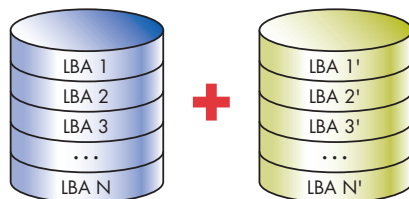
- Embedded in controller
- Single virtual drive presented to OS
- Bootable
- OS independent
- Low host CPU utilization
- Supports drives of different types/capacities
- Simple configuration utility
- Error notification
- SAF-TE and SES support
- Non-volatile write journaling for mirroring
- Hot swap capability for mirroring
- Floating hot spare for additional fault tolerance for mirroring

Integrated Mirroring

Logical View



Physical View



LSI Logic's Integrated Mirroring is a low cost RAID solution ideal for boot volume protection.

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FUSION-MPT ARCHITECTURE

LSI Logic's Fusion-MPT architecture provides unparalleled performance, binary compatibility of host software with LSI Logic's Ultra320 SCSI, Serial Attached SCSI, and Fibre Channel products, and significantly reduces software development time. With advanced architecture, the LSI Logic product family can be quickly adapted to respond to emerging I/O interfaces.

Fusion-MPT is based on industry standard ARM® technology to control the system interface and the hardware assisted ports. The controller frees the host CPU for other processing tasks while maximizing overall I/O performance. The processing power of the Fusion-MPT architecture also allows for advanced embedded features such as LSI Logic's Integrated RAID.

Fusion-MPT is a message passing architecture that provides an open programming interface for developers and has a single binary device driver. The Fusion-MPT OS driver suite supports all major operating systems including Windows NT and Windows 2000, Linux, Solaris, UnixWare, and NetWare. High performance, easy adoption, and an open programming interface allow for reduced software development, seamless integration and certification time, and reduced time to market benefits.

For more information please visit the LSI Logic web site at:
<http://lsilogic.com/storage> <http://adapters.lsilogic.com>

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Warranty

LSI Logic offers high-performance SCSI, ATA, and Serial ATA RAID storage adapters to leading server, disk array, and computer system builders worldwide. Using only the highest quality components, LSI Logic RAID storage adapters are assembled in world-class facilities to assure superior product reliability and performance. Because of stringent quality management programs, our RAID storage adapters carry a three-year limited warranty.

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