

EVOLUTION OF RAID

OVER 25 YEARS OF IMPROVING RELIABILITY AT SCALE

2014

Panasas introduces ActiveStor with scale-out per-file RAID protection. Reliability and availability increase with scale.

RAID 6+

PANASAS INTRODUCES ACTIVESTOR 16 with triple-parity protection and Extended File System Availability (EFSA), improving reliability at scale.

2004

RAIDframe all-software RAID controller "A Structured Approach to Redundant Disk Array Implementation"
—COURTRIGHT II, GIBSON, HOLLAND, ZELENKA

1996

Per-file RAID introduced The Scotch Parallel Storage System
—GIBSON, STODOLSKY, ET AL

1995

Parallel reconstruction techniques "Parity Declustering for Continuous Operation in Redundant Disk Arrays"
—HOLLAND AND GIBSON

1992

Erasur code data protection against multiple failures "Failure correction techniques for large disk arrays" —GIBSON, HELLERSTEIN, KARP, PATTERSON

1989

1988

RAID 1-5 defined "A Case for Redundant Arrays of Inexpensive Disks," University of California, Berkeley
—GIBSON, PATTERSON, KATZ

