



## CoSORT Sort/ETL and TiGi Solid State Disk

*TRIPLE*  
Large Sort Speeds!

*RESOLVE*  
DB & Warehouse Bottlenecks!

*UPGRADE*  
Costlier Software and Hardware!



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## The Growing Data Problem

The growth of digital data continues unabated in our information-based economy. Increasing reliance on the internet and corporate networks for information, communication, and commerce is driving a rapid rise in real-time transaction volumes. But, the data processing infrastructure in place today will not support the appetite that tomorrow's business-critical applications will have for speed.

Solutions like CoSORT continue to rapidly manipulate massive volumes of operational data. In VLDB, ODS and data warehouse environments, CoSORT delivers parallel sorting and single-pass flat file extract-transform-load (ETL) functions. Yet even with CoSORT, DBAs, data architects and CIOs are still bound by the terminal velocity and budgetary constraints of their storage and data access hardware ...

That is until now ... until a unique partnership between pioneers in software and hardware:

### CoSORT Sort/ETL & TiGi Solid State Disk

TiGi's solid state disk devices use file-caching memory technology to deliver *instant-access* data storage. TiGi's low-cost, low-footprint rack systems combine the speed of RAM with the integrity (non-volatility) of hard drives!

File-caching enables telecom companies to add value and revenue to their billable services (like pre-paid mobile invoicing) while lowering IT costs. Banks, equity traders and exchanges can process credit card validations, stock transactions and trade clearances, respectively, in real time. Health care, manufacturing, ASP and other industry sectors benefit similarly.



Coupled with CoSORT, you have the fastest possible solution to the biggest problems in data manipulation and management:

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## High-Volume Sorting

Assigning temporary sort work files to TiGi's file-caching solid state disk can TRIPLE the speed of a large overflow sort. Why? Because the writing and reading of sort overflow files on TurboRAID SSD happens 26 times faster than on rotating drives -- even at 10,000 RPM! CoSORT input and output files can still go to fixed disk (like TiGi GrowthRAID), but the TurboRAID product alone can satisfy temporary storage

requirements with up to 168GB of redundant solid state disk and more than two terabytes (2Tb) of combined (temporary and permanent) storage. The correct ratio of solid state to rotating disks make applications like CoSORT "fly faster" while still providing maximum data integrity. With CoSORT and TiGi's superior performance, maximum data integrity, and minimum cost, you can finally afford state-of-the-art sorting.

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## Data Warehousing and Data Webhousing

CoSORT'S parallel sort engine and sort control language (**sortcl**) combine to make light work of flat file extracts, transforms, and loads (ETL). Sortcl can select, sort, merge, convert, reformat, aggregate, and join in one pass through your data!

Now, add TiGi's specialized I/O and storage hardware to the mix and leave competitors

in the dust forever. Use TurboRAID to triple sort speed, and GrowthRAID for massive, affordable storage. Each 32 inches (18U) of 19" rack space in Fibre GrowthRAID can provide more than 7Tb of storage per RAID. With a single GrowthRAID configuration, you can host up to 450Tb of single address storage, or up to 7 petabytes (Pb) with 16 addresses for far less than EMC Symmetrix.

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## Very Large Database Loads

Using CoSORT to pre-sort flat files going into the database on the primary index keys can speed loads up to 90%. Using TurboRAID for sort work files can triple the performance of the sort itself (see above)! Place your redo, roll out, temporary and index files on either the TiGi TurboRAID or the FileCACHE of GrowthRAID to achieve the outstanding performance improvements.

Exploit the large capacity of DataCACHE on GrowthRAID to assure that frequently used data is readily available, and watch storage performance increase to yet another level.

CoSORT and TiGi bring a software-hardware combination with superior performance, mega-storage capability, and maximum data integrity -- all at an affordable cost.



#### **About CoSORT / IRI, Inc.**

Innovative Routines International (IRI), Inc. is the world's premier developer of data sorting software on open systems. As the first commercial sort for CP/M, DOS, Windows, and Unix, CoSORT leads the IT industry in sorting performance and data manipulation functionality. The full CoSORT package features several user interfaces and APIs for: batch sorting and ad hoc reporting; data integration and warehouse staging; and, drop-in replacements for third-party sorts. The entire CoSORT package price ranges from \$2K to \$30K on Windows, Unix and iSeries hardware based on size and CPUs. CoSORT pricing covers perpetual use of all modules, documentation and the first year of technical support and upgrades.

#### **About TiGi Corporation**

TiGi TurboRAID storage solutions can be as small and simple as a single solid state disk drive or as robust as an integrated system of solid state and rotating disks whose volume can be measured in the hundreds of terabytes. TiGi's GrowthRAID solutions are even more robust storage systems that are composed of StoreCACHE and StoreRAID components whose maximum volume can be measured in petabytes -- either connected to a server or to your LAN with a TiGi SANManager. TiGi solutions can be purchased or leased for less than half the cost of the slower, antiquated systems available from other storage vendors. TiGi offers its systems with full, one-step contracting and support for both government and commercial customers.

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Both CoSORT and TiGi solutions are listed on GSA Schedule for US government purchasing.

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