Higher performance data processing for the intermediate system user.

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Subsystems that enhance your R-O-I.

If your company has, or is about to purchase, a high-performance processor such as an IBM 4300, or any equivalent plug-compatible device, STC can help you achieve higher levels of performance two important ways: The first is STC's new 4500 family of tape subsystems, which were specifically designed to provide the intermediate system user with increased performance and enhanced flexibility, while reducing cost-of-ownership. The second is STC's 8000 Series disk storage subsystems, a proven line of products that can also help boost performance and provide your company with unprecedented flexibility.

A subsystem like no other available.
STC 4500 devices are totally plug-compatible with equivalent IBM devices and offer maximum flexibility. Your company can start with an initial configuration consisting of a single controller and one drive. Then, as your information requirements grow, your 4500 subsystem can gradually be expanded to eight drives. Add a second controller and the subsystem grows to encompass 10, 12 or even 16 drives.

The speeds and the densities of 4500 drives can be upgraded right at your site, at moderate cost, for additional flexibility. No change in operating software is required to make these upgrades or to expand the subsystem, and transportation costs are kept to the minimum.
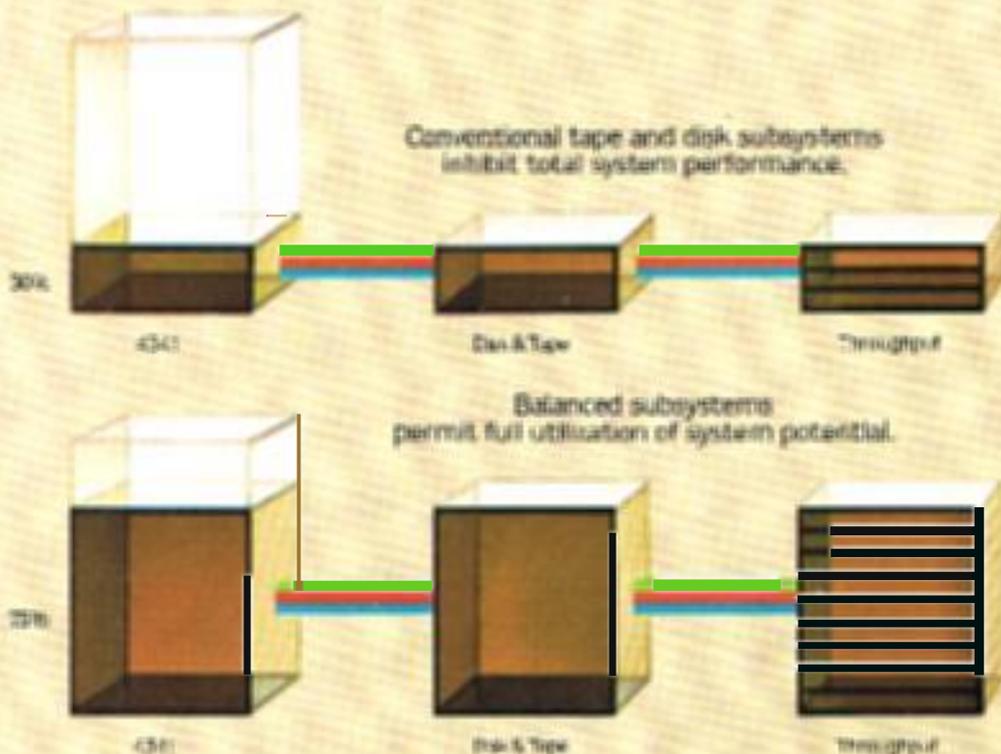
Increased system performance is another important attribute of STC's 4500 family. To appreciate this, it is first necessary to understand that total system performance is not simply a function of the power of your processor. The other critical factor is the ability of your system to store and retrieve data at speeds comparable to those of the processor. In other words, as shown by the chart (below), slow storage subsystems produce information bottlenecks, which make it impossible for the processor to deliver all the performance for which you're paying. In comparison, STC 4500 subsystems offer speeds that match those of today's high-performance, intermediate-system processors, to produce a "balanced" system. As you can see, this balance is what provides maximum productivity.

Innovative STC technology permits the 4500 to pack up to seven times as much data on a reel of tape as traditional drives. Thus, labor costs are

reduced, since fewer manhours are required to mount and remove tape reels. In addition, the 4500 incorporates such features as automatic threading, power hubs, power windows and a unique operator convenience panel, which help reduce labor costs even further.

STC 4500 subsystems reduce construction and energy costs. Unlike conventional devices, a 4500 subsystem operates in any standard office environment. This means no costly raised flooring, external cabling or heavy-duty air conditioning. In fact, a 4500 subsystem typically requires 40% less air conditioning and power than traditional devices — no small consideration in this era of spiraling costs.

Just as important, in the 4500 subsystem, Large Scale Integrated (LSI) circuits replace many of the trouble-prone, electro-mechanical components found in traditional devices, to increase reliability and reduce maintenance costs. Finally your cost-of-ownership is reduced even further by powerful, built-in diagnostics which can be performed remotely, and thus expedite maintenance.

Conventional tape and disk subsystems inhibit total system performance.

Balanced subsystems permit full utilization of system potential.

Powerful help for the '80s.

The 1980s promise to be a decade that will challenge your managerial skills. However, your computer can be a powerful ally. It can help your company cope with the '80s by helping increase productivity. The computer can help slash inventory levels to the absolute minimum. It can improve your entire corporate decision-making process. Or maximize your cash turn. But as your computer is called upon to function more and more as a management tool, it must be capable of delivering higher and higher levels of performance. Thus, the crucial question is: How can you, the intermediate system user, achieve high-performance data processing at reasonable cost?

A history of cost-efficient solutions.
Since its founding in 1969, STC has provided computer-system users with cost-efficient solutions to their data storage needs. In turn, this has permitted us to grow from the manufacturer of a single product —a tape drive — to become a member of the Fortune 500, and the world's largest independent supplier of high-performance tape drives, disk products and system products. Today, 78 of America's 100 largest industrial manufacturers use STC products in conjunction with their IBM mainframe computers. In fact, in just seven years, STC replaced IBM as the world's largest manufacturer of tape subsystems.

Why have STC products enjoyed such success? The reason is simple. Computer-intensive corporations have learned that STC products deliver higher performance; they help process more information, faster, with greater reliability, and at a lower cost-of-ownership than comparable products. And now, the intermediate system user can take advantage of these same high-performance benefits — at affordable cost.

Field proved in the toughest environments imaginable.

Over the past seven years, STC 8000 Series disk subsystems have proved their superiority where it counts most — in some of the world's most demanding, high-performance data processing operations.

Consider flexibility. STC 8000 Series disks can be configured to meet your exact application. Then, as your needs change or you upgrade your processor, you can modify the subsystem or expand it — almost infinitely — to match new requirements.

Higher performance is also yours with STC 8000 Series subsystems.

While they are absolutely plug-compatible with equivalent IBM devices, their innovative design permits data to be transferred from, and to, your central processor approximately 40% faster than the disk drives you're probably now using. This means your processor is free to spend that much more time doing what it was meant to do — computing.

In a typical configuration, the STC 8350 requires up to 30% less space, and up to 25% less power and 28%

less air conditioning than comparable models. These same savings apply to the 8360, which provides data access at a significantly faster rate. Or for additional savings, choose the STC double-density 8650. It packs twice the amount of data in the same space as the 8350, to reduce cost-of-ownership even further.

Support and service that keeps your system up and running.

We know that reliability is of the utmost importance to computer users.

In fact, much of our success as a company can be attributed to our understanding of this, and to the service we provide to assure maximum reliability. STC currently has more than 1500 field service personnel in place at locations throughout the U.S. An independent reporting service consistently ranks STC service as the best in the industry. When it comes time for the installation of your STC subsystem, you'll get exactly the same kind of field support as our big systems users.

The dawning of a new age in intermediate system processing.
STC's 4500 Series of tape subsystems establish new performance standards for the intermediate system user. While they are exceptionally compact and innovatively designed for a lower cost-of-ownership, they also deliver performance superior to that offered by many large subsystems. Equally important, the STC 4500 is infinitely more flexible, more reliable and easier to maintain than conventional devices.

Yet, the 4500 provides these advanced benefits at a cost comparable to what you would pay for a subsystem with must less capability.

Ask your STC sales representative for complete details on the 8000 Series or 4500 Series of high-performance data storage subsystems. Or write: Storage Technology Corporation, 2270 S. 88th Street, Louisville, CO 80027 (303) 673-5151.

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