

UniStride 2.2— An Enhanced UNIX System

UniStride™ is a powerful multiuser operating system for Stride supermini computers. We've enhanced AT&T System V with the best of Berkeley 4.3BSD, and added dozens of user utilities and packages. Ideal for both business and technical applications, UniStride is everything you'd expect to complement the power and performance of Stride systems.

UniStride also has a major benefit you might not expect: an open door to one of the world's largest application software bases. With no changes required, UniStride runs databases, word processors, spreadsheets, communications programs, office automation programs, and other applications designed for NCR iSeries® computers. And, in Stride's high-performance tradition, it runs them better.

UniStride includes all standard UNIX® features: line and screen editors, style and spelling checkers, a complete tool kit for programmers, and many general purpose utilities such as "sort". Text formatting process documents—even tables and equations—with typeset precision and quality.

Popular 4.3BSD features are there, too. UniStride supports inexpensive advanced local area networking with TCP/IP protocol. For convenient tasks (such as database queries while editing), the UniStride window manager runs up to 10 active program sessions on a single ASCII terminal.

We've fine-tuned UniStride for fast response time and fast disk I/O. Users zip through utilities and applications on our 8K, 9K, hard terminals. More people can work at the same time. Fast I/O means that the powerful Stride processors can work at the high-performance pace they were meant for.

Stride and UniStride are trademarks of
Stratronics Computer Systems, Inc.

UNIX is a registered trademark of AT&T.

NCR iSeries is a trademark of NCR Corporation.


STRIDE A product group of
Stratronics Computer Systems, Inc.
200 E. Main Ave., Suite 500
St. Louis, MO 63102
Building on the strength of 80,000 users!

UniStride 2.2—

An Enhanced UNIX® System

UniStride™ is the powerful UNIX® multiuser operating system for Microlog's high-performance supermini Stride computers. Rich in utilities, tools and features, it is an excellent environment for software development, database (dBase) applications, engineering, document preparation, and general purpose computing.

An enhanced version of A&E/T System V, UniStride is 100% compatible with all the System V specifications. It incorporates many of the best features of Berkeley 4.3BSD, plus dozens of user-contributed and public domain packages and utilities.

To fully complement the capacity and flexibility of Stride computers, Microlog enhanced the System V kernel for faster I/O to disk, advanced local area networking, and flexible interprocess communications. Working together to provision team-work, UniStride and Stride systems are ideal for both business and technical applications.

NCR Compatibility

To harness one of the largest bases of application software in the world, the UniStride kernel loads and executes NCR Tower® programs. Software options include a wide variety of databases, word processors, office automation packages, spreadsheets, compilers and programming tools, business graphics packages, and other applications.

Almost all NCR Tower programs install and run under UniStride, with no changes required. Users will see but one difference: speed. In Stride's high-performance style, it runs them faster.

Virtual Memory

The UniStride kernel supports demand paging, making full use of the virtual memory capabilities of the 68020 processor. The significant improvement in response time gracefully supports more users and greater loading per system. In most applications, response time is

improved further by dedicating memory to page caching.

Rich In Utilities

UniStride incorporates virtually all standard UNIX utilities, including file and screen editors (ed, ex, vi, text formatters (lpr, tbl, nroff, troff), style and spelling checkers (spell, style), a general purpose sort utility (sort), and multiple program development tools.

Dozens of extra utilities are included from 4.2BSD, 4.3BSD, the public domain, and user-contributed packages. For instance, rsh (r Shell), gpre, termcap, rshd, dircat, and rcmd. Other popular packages, such as TEX, are available separately.

Window Management

The UniStride window manager supports up to 16 active program sessions from a single ASCII terminal. Backed by Stride's superior response rate, the powerful 4.3BSD window utility (ip) among windows or quickly changes their size or position.

Networking

Stride's LAN communications are based on the "Transmission Control Protocol" and "Internet Protocol" (TCP/IP) from 4.3BSD. Microlog implemented TCP/IP in the kernel on top of those LAN standards. All can co-exist on the same machine.

The Stride LAN hardware and software package has dozens of UNIX systems share printers, modems, and other resources. Individual network nodes share powerful system communication facilities. File transfer, on-line manuals, and electronic mail (through programs such as talk, phone, rcp, rsh, rlogin, and mail) are available to UniStride users on the network.

UniStride includes additional communications utilities, such as rmap (UNIX to UNIX copy) and tip (an asynchronous modem communication program). A version of KERMIT is included for reliable file transfer with a wide variety of operating systems.

Input/Output Speed

Crisply responsive, Microlog's terminal I/O rate is 200% to 400% faster than rates on most UNIX computers. UniStride and Stride hardware support a true 38.4K baud rate on all serial ports.

Hand-optimized assembly code device drivers yield significant I/O gains. A tuned disk queuing algorithm improves overall response time by focusing read over write operations, and can direct sequential writes for sorting and optimizing.

Development Resources

UniStride's standard software includes four programming languages: C, Fortran 77, SAS (a version of SIMBOL), and IS (an interactive interactive pseudo-BASIC). Powerful utilities including a debugging tool (SD), a program portability checker (lpr), 68020 assembler (as), a macro processor (m4), and the UNIX Revision Code System (RCS). The Berkeley Press LSP compiler is available separately.

Software Base

Microlog has ported and optimized several important software packages: Unix, Acorn, UniPlot II, Q-Cad, DataFlex, ROLIN, PPS (POSTBASE), FORTRAN 77.

In-House Expertise

UniStride's rich variety of instructions, powerful command set, kernel compatibility, and superior multitasking capabilities are the backbone of Microlog's in-house software staff. These exceptionally qualified UNIX engineers developed the system port and all kernel enhancements.

Microlog is a direct source code licensee of AT&T.

UNIX is a registered trademark of AT&T.

©1988 Microlog, a subsidiary of NCR Corporation.


A member group of
Microlog Computer Systems, Inc.
480 N. First St., Suite 1000
San Jose, CA 95128
Building on the strength of 80,000 users!