

< **T**ypeset text and graphics first appear on the monitor.

✓ **T**hey can be printed out on a high-resolution laser printer.

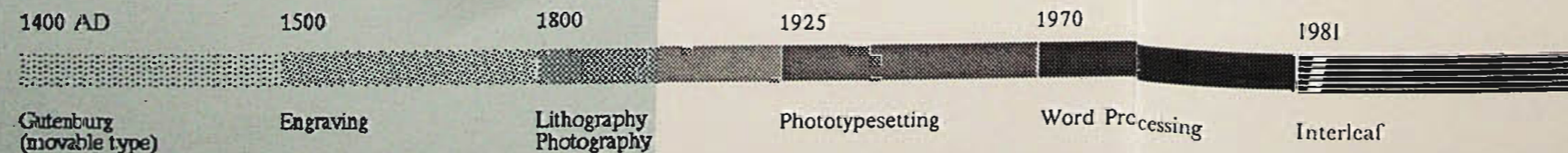
> **O**r sent directly to a phototypesetter.

Ever since Gutenberg, man has been working to perfect the science of inexpensively converting ideas into printed communications.

First came movable type. Then machine-set type. Photographic type. Now, word processing and computer-generated type. All because the uniformity of typeset words allows more effective communication, faster and less expensively.

Yet today, communication has become much more than words alone. Printed matter must increasingly include drawings, photographs, graphs, symbols, and equations. But getting them in a typeset document is still the same labor-intensive and costly process it has always been.

Until Interleaf.▲



Interleaf Electronic Publishing Systems allow anyone to set type, produce graphs, size and copy photographs, make up pages and print the results. From a single electronic workstation. In minutes.

So now in-house production of typeset and illustrated booklets, manuals, presentations, illustrated reports, proposals, forms – even overhead projection transparencies – can be easy. Fast. And less expensive than ever before.

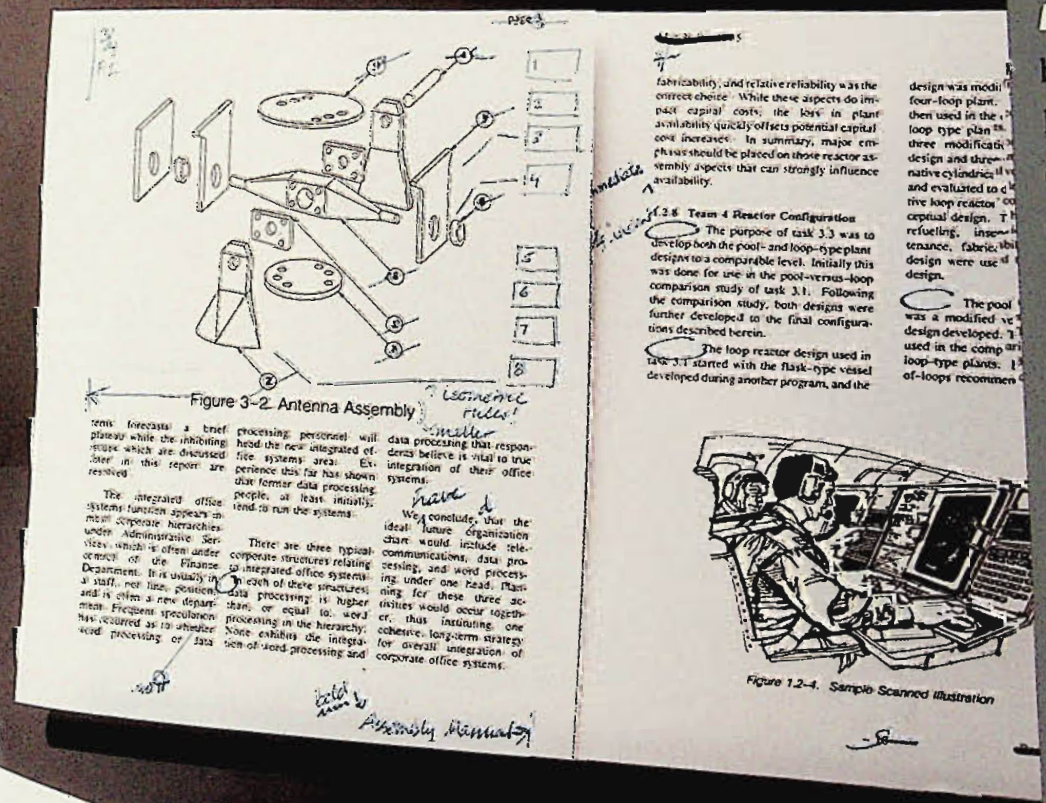
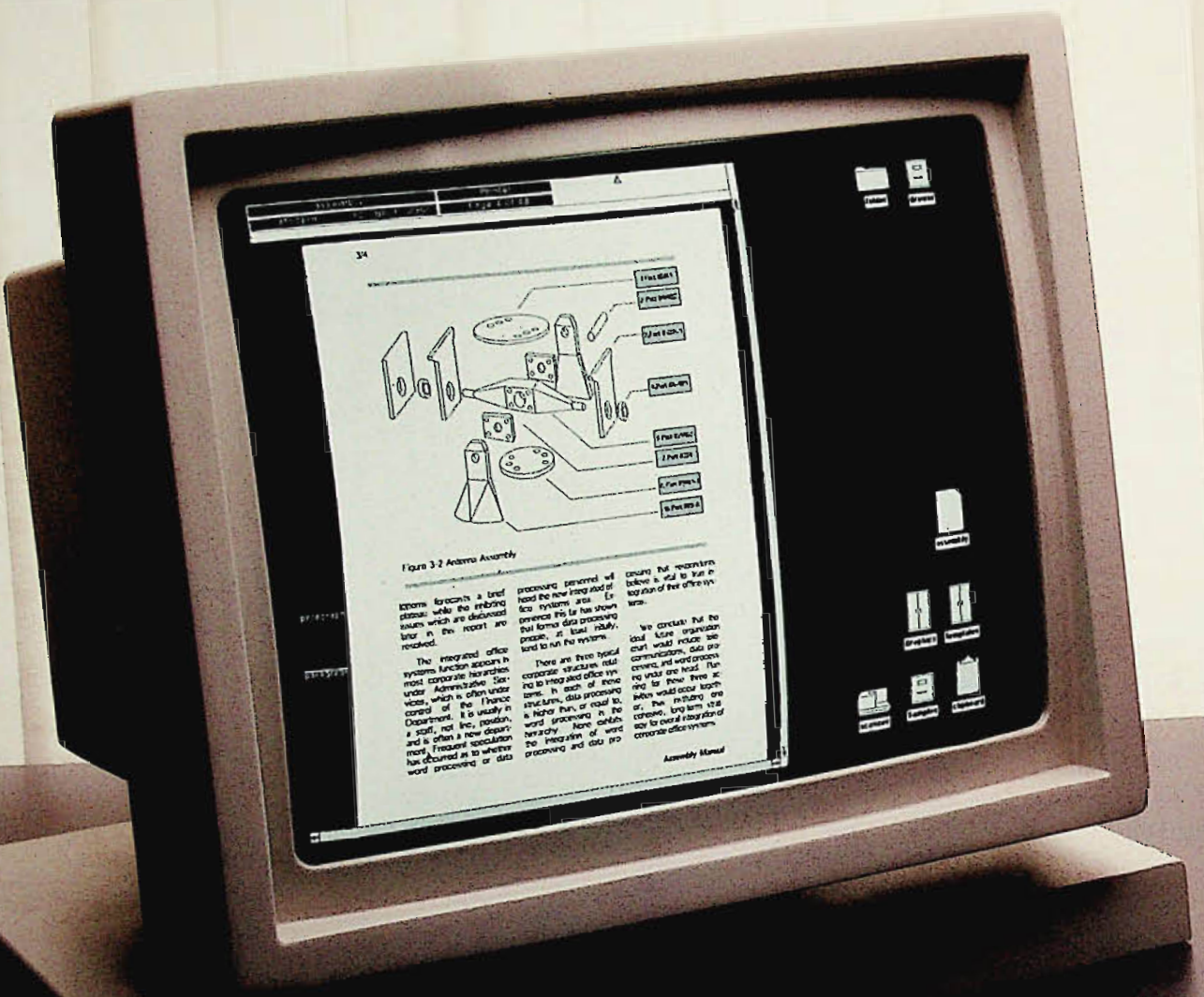
With more control and better quality, too.

Interleaf Electronic Publishing Systems represent the next step forward in the 600 year evolution of print communications.

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It's May 15.
Your new product was released
by R&D to manufacturing and
to documentation a month and
a half ago. Your sales force has
been promising delivery by
June 1.

But there's a problem. The text
has been set in type. Over 100
line art illustrations have been
created. Nearly 300 pages are
composed and ready to print.
And now, the product is
changed. Significantly.
In the past, this situation would
have meant back to the type-
setter. Back to the drawing
board. Back to the mechanical
artist. Back up the shipping date.
Until Interleaf.



Interleaf Electronic
Publishing Systems
cut the time required
to produce critical
printed matter by as
much as 50%, and
help assure on-time
production of printed
documents.

Type can be set and
reset, line art drawn
and redrawn, pages
composed and
recomposed right up
to the last minute.

A complete electronic print shop.

Easy-to-use workstation.

This is the heart of the Interleaf System. Engineered for speed, versatility and reliability, ergonomically designed for efficiency, compactly styled to fit any location.

Operators enter text on a normal typewriter keyboard, alter text and graphics by pointing to functions through a hand-held mouse. The necessity of memorized commands for editing is completely eliminated. So full productivity is possible after just a few hours of use. And everything is displayed on a large, high-resolution, bit-mapped screen.

Behind the screen is state-of-the-art electronics: a 32-bit, 68010-based microprocessor with 2 Mbytes of main memory running under the UNIX™ operating system.

For large installations and for future expandability, any number of workstations can be linked together with an Ethernet™ local area network.

Compact scanner.

This compact device, a little larger than a standard office copier, allows virtually any existing image up to 8½" by 11" – illustration or photograph – to be placed in any document. Little operator knowledge is necessary, and the process can take less than two minutes.

Once placed in the document, the image can be sized, rotated and edited on the screen. Add text in any font, as well as any free-hand graphics you want. Then retouch your scanned image with an extensive palette of textures and electronic "brushes."

Fast laser printers.

For the printing of documentation, memos and reports, the Interleaf System includes an optional line of high-resolution laser printers. They allow the speedy printing of crisp originals (300 dots per inch) on virtually any kind of paper – including acetate for overhead projection transparencies.

Phototypesetting compatibility.

Any Interleaf document – complete with multiple typefaces and screened illustrations – can be sent directly to a phototypesetter. You don't need to know a single typesetting command. All it takes is a click of the mouse.

The Interleaf System interfaces to most phototypesetters with image processing capabilities. They include: Monotype Lasercomp, Compugraphic 8600G, Autologic APS-Micro 5G, Allied (Mergenthaler) Linotype Linotronic 300, and all models offered by Information International, Inc.

The Interleaf workstation is state-of-the-art: 32-bit, 68010-based microprocessor with 2 Mbytes of main memory.



Our high-resolution screen is bit mapped for "what you see is what you get" clarity.

Interleaf Systems set industry standards for engineering excellence. The company has been responsible for most electronic publishing innovations.



Interleaf laser printers produce crisp originals on virtually any kind of paper, or acetate.



The Interleaf scanner lets you incorporate any existing image – line art or photograph – into any document.



The mouse frees the user from memorizing keyboard commands.



Capabilities never available until now.

"The graphics capabilities of the system, especially the data-driven charts (a major portion of our work) have literally revolutionized our lives!... Interleaf's ability to size and move graphics were features its competition could not begin to offer."

Jan Shafer, Administrator
Forsythe Dental Center, Boston, MA

Interleaf Customer Service assures satisfaction after installation. It's available by toll-free telephone from 9 to 5 local time.



Versatile text formatting.

With the Interleaf System, as text is entered it is formatted and paginated in the predetermined typeface and size of your choice. Automatically.

At any time, you can edit, reposition and resize words or entire blocks of copy. Or reformat and repaginate entire documents. Instantly.

We call it Structured Document Editing.™ You'll call it amazing.

Choice of illustrations.

You can put just about any type of illustration just about any place in any document. You can also make it any size, rotate it to any position, edit it any way, and add words in any available type font.

Business charts and graphs. Take data directly from Lotus 1-2-3,™ VisiCalc™ or Multiplan,® or enter it on the keyboard. Choose from over 40 different chart and graph styles for display. Business graphics become instant, and easy. No artistic talent, no pasteup required.

Free-form drawings. Sketch directly on the computer screen. Then change, edit, redraw, size and place your illustration exactly where you want it in the text. If you need help, a built-in clip art library of arrows, arcs, borders, etc. makes it easier.

Computer-aided designs. Take engineering drawings done on your computer-aided design (CAD) system and insert them electronically. Then rotate them, overlay additional graphics and add text as necessary.

Photos and illustrations. Scan any photo, any drawing, up to 8½" by 11" using the optional Interleaf Scanner. If desired, convert it to a halftone screen. Then retouch the image on the screen

until it's just right before dropping it into your document. You can also scan, edit and store photos and illustrations as an image library for use in future documents.

What you see is what you'll get.

With the Interleaf System, text and illustrations appear exactly as they will when printed out on our laser printer. The high-resolution screen shows every detail on the entire page real size.

If the text is sent to a phototypesetter, type size and length are the same; actual style characteristics of the type may vary according to its design.

Completely compatible.

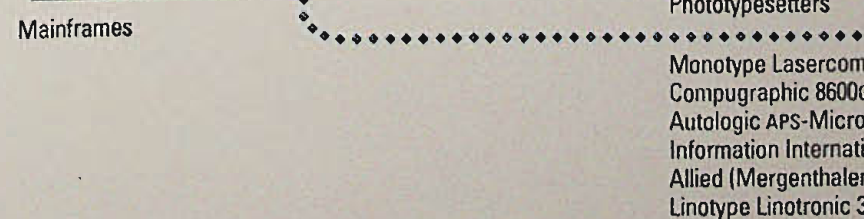
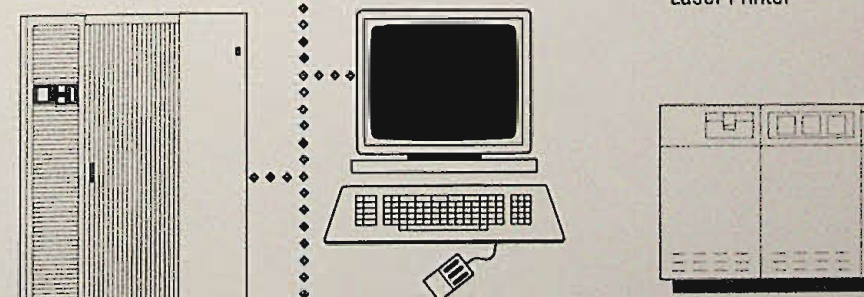
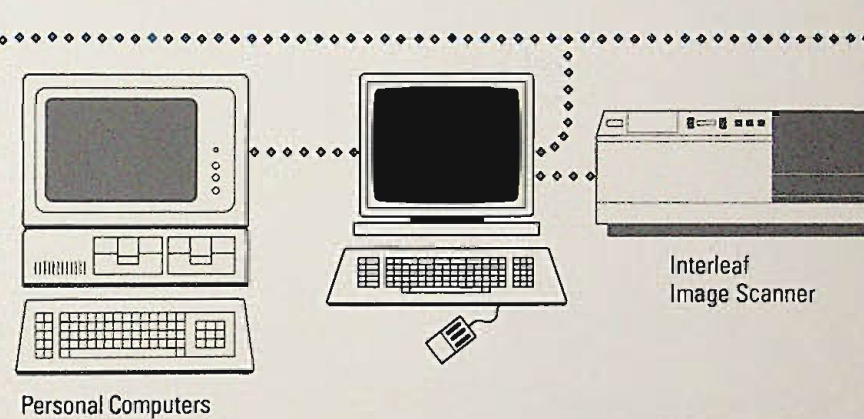
You can keyboard text directly into your Interleaf System, or have it sent electronically from virtually any mainframe, mini, micro or personal computer or word processor. All ASCII-standard text and data can automatically be formatted in the type style of your choice.

To make things even easier, special filters for popular Wang and Xerox word processors, and word processing programs such as Word Star™ on the IBM® PC, allow the transferring of many formatting commands. Even format commands from technical markup languages like nroff and troff are compatible.

Ethernet (LAN)

Text input options.

Graphics input options.



Text capabilities.

Text is formatted in the typeface and size of your choice. Automatically.
Edit, re-position and re-size copy. Instantly.
Edit up to 16 documents. Simultaneously.
Pre-format boilerplate documents. Quickly.
Paginate in real time.

Graphics capabilities.

Generate business charts from data. Instantly.
Create free-form line drawings.
Scan line art and manipulate.
Scan photographs and edit.
Insert CAD-generated drawings into documents.
Overlay additional text and graphics on any scanned image or CAD drawing.

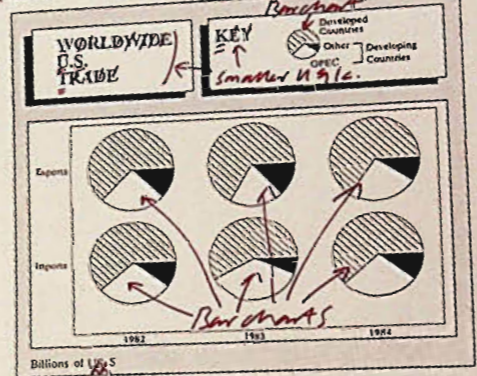
Monotype Lasercomp
Compugraphic 8600G
Autologic APS-Micro 5G
Information International
Allied (Mergenthaler)-
Linotype Linotronic 300

Ethernet (LAN)



Financial Services Provided to Corporations and Foreign Governments

International Advisory Services
 J. Nies & Associates is a recognized leader in international finance both as an advisor to foreign governments, government agencies, and corporations and international agencies, and in helping these bodies arrange financing. A new agreement among the J. Nies and houses in New York, Paris and London gives J. Nies an enhanced international presence and better enables us to respond to our clients' needs from a global perspective.



Financial Advisor to Developing Countries
 Our international financial advisory group is employed throughout the developing world to assist countries and industries in structuring their internal finances and, when appropriate, to help them seek external funding. Clients include countries such as Ethiopia.

Selected Client-Listing

- ABC Corporation
- Allied Chemical
- Allis-Chalmers Corporation
- American Express Company
- Avis Rent-A-Car System
- Boise Cascade Corporation
- Burroughs Corporation
- Celanese Corporation
- Club Med
- Coca-Cola
- Colgate-Palmolive Corporation
- Continental Group, Inc.
- Corning Glass Works
- Crosse-Hinds Company
- Davy Corporation Limited
- Diamond International Corporation
- Diamond Shamrock
- Engelhard Minerals & Chemical
- Eastern Air Lines
- Ford Motor Company
- Halcon International, Inc.

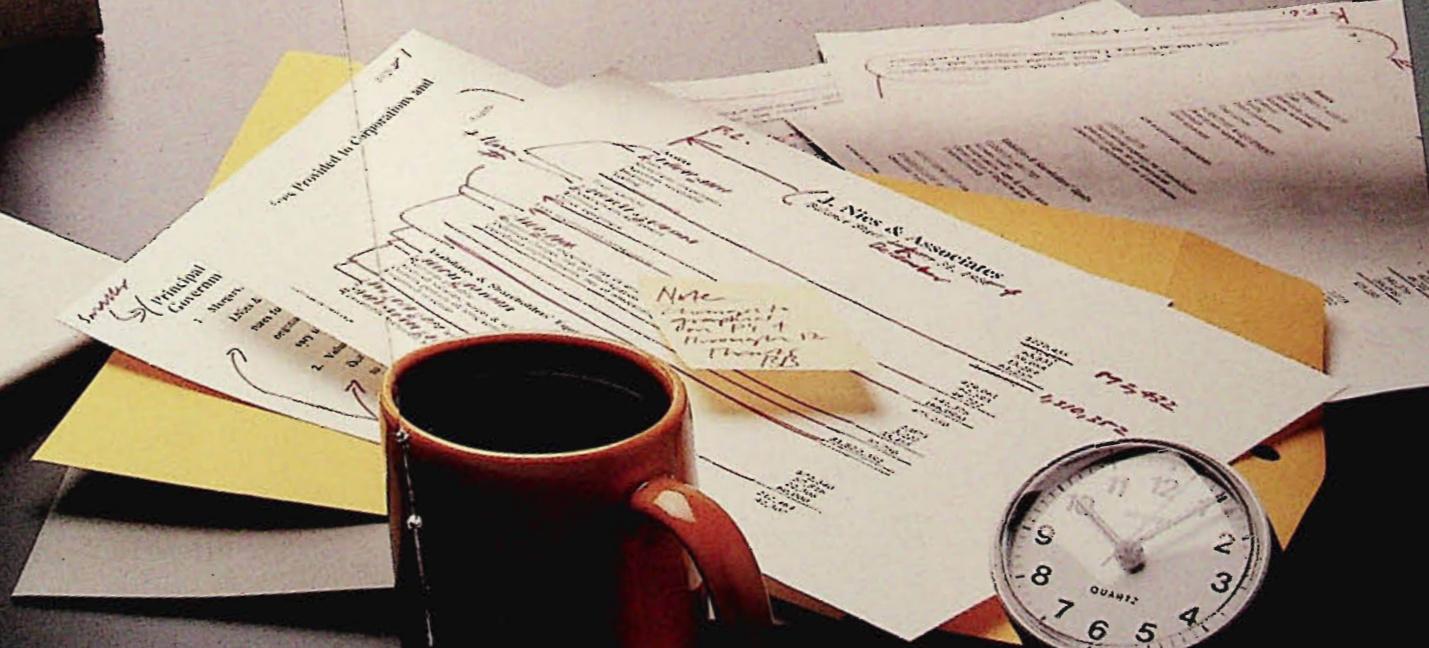
Our success with the above-mentioned client list is no success record in our other equity underwriting activities performance by carefully screening the business we add our institutional sales force. That sales force is comprised of analysts and salesmen who begin each day with a 7:30 a.m. thoroughly current projects. Each offering we undertake receives divided attention. We do not deal in merchandise, but in properly communicated to the buying public.

A brief summary of some of the offerings underwritten January 1, 1983 follows. Exhibit A shows the performance date.

We have been careful to develop a high degree of credibility of offerings but the overall investment community as well.

J. Nies & Associates
 F.L.

J. Nies & Associates
 F.L.



with a 15-page report on a major project. He'll make the same presentation tomorrow to the Executive Committee. But he thinks the assumptions on page 2 need work; he doesn't like the pie charts on pages 6 and 7 ("change them to bar charts"), doesn't like the way page 11 looks. Thirty-six changes in all. And he'll be out of the office all afternoon, so he needs to see the changes—to both hard copy and overhead projection transparencies—before lunch. Today. In the past, this situation would have caused "revision anxiety." Changing any report in that amount of time required a dreaded back-and-forth process between author, layout artist, secretary and typesetter. Until Interleaf.

Interleaf Electronic Publishing Systems put an end to revision anxiety.

Now, rewriting, reformatting and redrawing can all be done quickly on the work screen, and printed out instantly on paper and/or acetate.

"Interleaf leads electronic publishing."

George Colony, Editor
The Professional Automation Report

Interleaf has 15 fully staffed service offices across the country. They assure fast local service, as well as in-depth response to applications needs.



The leader in electronic publishing.

Interleaf is the industry leader in electronic publishing systems. We helped start the business less than five years ago. We've been responsible for many of its major innovations. We continue to have the most advanced technology and the best qualified staff.

Interleaf Electronic Publishing Systems have been installed in firms large and small throughout North America. In fact, we have more users than all the other "new wave" electronic publishing companies combined. Our systems are found in offices, engineering environments and graphic arts departments—anywhere that type-set documents have to be produced quickly and inexpensively.

Every Interleaf System is backed by the industry's best support. Our Customer Service Group is as close as your telephone. And a nationwide staff of specially trained service technicians assures fast service when needed.

"Interleaf uses 68000-based engineering workstations and laser printers to produce striking results...The machine handles words and graphs with equal ease and stunning speed."

Fortune

"The Interleaf System is a technical publications department's dream come true: it does the job and it's fun to use."

Max Gordon, Editor
ImagiTex, Inc., Nashua, NH

"Everyone here who's using the Interleaf system is pleased. It's fast, easy to learn, and the commands are consistent."

Joel Goldberger, Software Manager
University of Southern California—
Information Sciences Institute
Marina Del Rey, CA

"It's the level of integration of these different parts (text manipulation, a diagramming and drawing tool, and a chart tool) that helps make Interleaf unique...Interleaf takes only a second to drastically re-format most documents."

UNIX/World

"We had been using the Xerox Star. Interleaf's features are so much faster and 'effectively' cost-effective that Star is no longer on site."

Dr. George Crawford, Manager
Engineering Systems
Westinghouse Electric, Oakdale, PA

"The quality of the output is far beyond anything that we have been able to do in the past...and substantially surpasses what we have seen from competitive organizations as well."

Jesse Robert Lovejoy, Partner
Lazard Freres & Co., New York, NY

"The introduction of the Interleaf System, which enables the (forms design) department to absorb typesetting into the form-design phase, cuts development time by half."

David Halem, Manager
Biomedical Data Systems
Wyeth Laboratories, Philadelphia, PA

"It used to take a week to get a few overhead projection slides from our overloaded graphics department. Now we generate them in hours right in the office."

Glen Hastie, Research Engineer
SRI International, Menlo Park, CA



For more information.

Perhaps now you would like more information on specific applications for electronic publishing. Or perhaps you'd like to actually see how easy an Interleaf System is to use, and what kind of time and cost savings are possible in your specific environment.

All it takes is a telephone call. Or filling in the attached reply card. We'll answer your questions, send more information, or arrange for a demonstration at your convenience.

It can be the very first step towards very substantial savings.

Sales Offices.

California

Los Angeles
10960 Wilshire Blvd.
Suite 210
Los Angeles, CA 90024
(213) 477-3987

Menlo Park
545 Middlefield
Suite 270
Menlo Park, CA 94025
(415) 853-1166

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1301 Dove Street
Suite 270
Newport Beach, CA 92660
(714) 851-1188

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101 California Street
Suite 1960
San Francisco, CA 94111
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Stanford Place III
4582 South Ulster St. Parkway
Suite 705
Denver, CO 80237
(303) 694-2002

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2 Soundview Drive
Greenwich, CT 06830
(203) 869-2088

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3500 Piedmont Road N.E.
Suite 609
Atlanta, GA 30305
(404) 262-9602

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91 Montvale Avenue
Stoneham, MA 02180
(617) 279-0420

Minnesota

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8300 Norman Center Drive
Suite 838
Bloomington, MN 55437
(612) 830-1285

New York
One Exchange Plaza
55 Broadway, 17th Floor
New York, NY 10006
(212) 514-7930

Pennsylvania
Philadelphia
Two Neshaminy Interplex
Suite 207
Trevose, PA 19047
(215) 638-2255

Texas
Dallas
Central Towers Williams Square
Suite 910
5215 N. O'Connor Road
Irving, TX 75039
(214) 263-5384

Houston
Transco Tower
2800 Post Oak Blvd.
Houston, TX 77056
(713) 622-9270

Virginia
Washington, D.C.
8320 Old Courthouse Road
Suite 308
Vienna, VA 22180
(703) 790-5515

Washington
Seattle
10900 Northeast 4th Street
Suite 1645
Bellevue, WA 98004
(206) 454-5060

Appleton Design. Computer Graphics. Les Snow (Interleaf). Principal photography, John Sull. Printing, Acme.

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Yes. Please send me more information about Interleaf Electronic Publishing Systems.

My primary application is:

- Technical documentation/user manuals
- Internal reports
- Forms
- Client proposals/reports
- Newsletters
- Other (explain)

I am interested in:

- Communications filters
- CAD interface
- Image scanners
- Laser printers
- Phototypesetter interfaces

Name _____
Company _____
Address _____
City _____
State/Zip _____
Telephone _____



Interleaf

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