



**i n v e n t**

# rehosting hp e3000 apps

Alvina Nishimoto

# migrating applications

- what are the first things you should be asking yourself?
- choosing one of the five options
  - replace
  - rewrite
  - migrate
  - retire
  - leave on mpe



# things to think about

- compiler options
  - is a compiler available on your target platform of choice for the language in which your 3000 application is written?
  - migration tools - do they work with your compiler of choice?
- emulation of all (or part) of the mpe environment?



# emulate or migrate?

- how to manage the file system
- library of software to translate turboimage to oracle?
- message files - named pipes?
- go direct or use a layer of software



# recompile or translate?

- stay in the language you're in on the 3000?
- or translate to another language?
- what to do about
  - vplus,
  - image
  - mpe intrinsics



# do one thing at a time

- separate the issues
- don't do new platform at the same time you change languages



# recompile or translate

- recompile
  - picking the right compiler
  - picking the right migration tool
- translate
  - modern languages (java; legacyj)
  - move gradually





# It's a personnel issue more than a technical issue

- if you have software in rpg, but no rpg programmers, this may be a good time to use a tool to get away from rpg.
- pitfalls:
  - comments that don't come over with your migrated code.



# maintaining the translated code

- pro's and cons to both approaches
- translating
- recompiling
- “you're not done when you finish recompiling



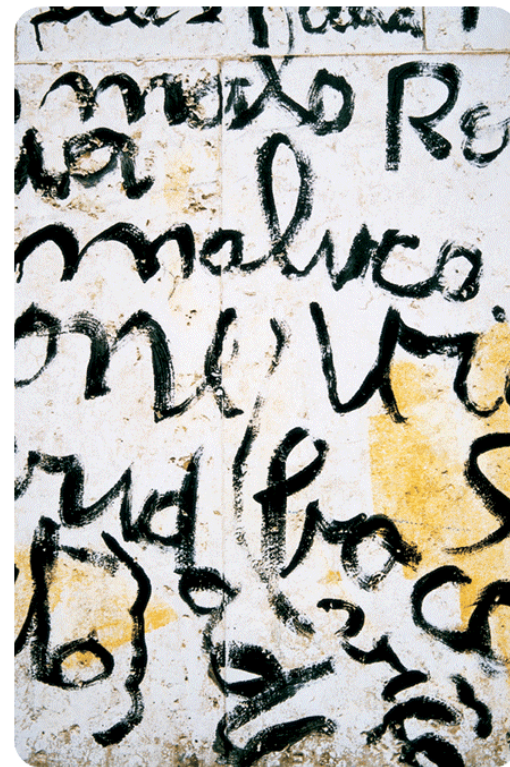
# must decide how you're going to handle your subsystems

- if your programmers have written highly modular code, the migration will be easy
  - all the statements that must be modified will be in a single module
  - not typical



# the more typical case

- most programs laced with calls to vplus, turboimage and other proprietary mpe intrinsics
- migrating this kind of code is much more difficult
- may need to consider emulation as an alternative



# to emulate, or not to emulate

- often determined by
  - quality of staff
  - amount of code to migrate
  - emulators are available
  - retraining concerns



# factors that make code difficult to migrate

- turboimage calls
- vplus calls
- other mpe intrinsics
- system variables
- access to udcs
- file system



# more problems

- parameter passing is done differently on mpe than on other operating systems
- date and time formats
- file structure
  - mpe shell can help --  
for a while



# migration tools update

- what are some of the tools I may need?
- where can I get additional information?  
how do I obtain these tools?
- what is available if I am interested in an IMAGE-like product on HP platforms?





# simulation/re-engineering tools

	simulation space	re-engineering space	end-to-end tools*	example tools*
User I/F (Vplus)	VPLUS replacement	VB, Java, XML, ...	BiTech Denkart Neartek Transoft	Screenjet Wingspan
Application Environment (Cobol, Intrinsic, JCL/CI, F/S)	Support: MPE intrinsic library & shell commands, MPE filename support, JCL/CI, Utilities (batch, spooler, systems mgmt)	Native System Function Calls & APIs, Perl /Shell Scripts, Native F/S Access		
	Cobol replacement	Cobol repl. or C++, Java, ...		AcuCorp LegacyJ MicroFocus
Database (Image)	Image replacement Image APIs to RDBs Native RDBs	Native RDBs (Oracle, SQL-Server)		HP Eloquence SQL_Server & Oracle w/APIs (DISC, iMaxSoft)
	Data Movement	Data Movement (Image -> RDB)		Quest/Taurus, VitalSoft, Robelle

\*See Tools Matrix for more info

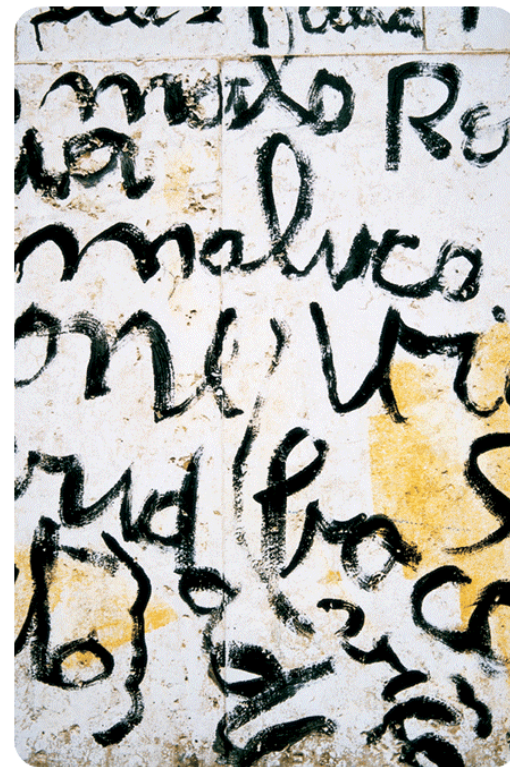
# cobol - syntax

- Reserved Words
- Copy libs
- \$INCLUDE
- Macro expansion



# reserved words

- example
  - using “window” as a data item name works with hp cobol
  - acucobol uses “window” as a reserved word
- with compile options you can turn off this reserved word, allowing you to leave the item name



# cobol - externals

- Passing of parm and info in run command\
- Entry points
- CIERROR
- Job/session environment (e.g. Temp files)



# cobol - file systems

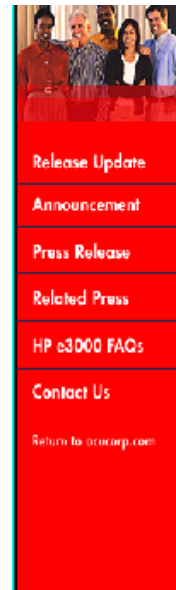
- File naming  
(FILE.GROUP.ACCT)
- MPE file types
- Record structure
- Sharing file IDs (FDs as  
Intrinsic parameters)
- Sort files
- KSAM files
- FILE equations.
- Temporary files



# Acucorp

## Support for HP COBOL Syntax

- Most HP COBOL syntax and extensions are supported on all ACUCOBOL-GT platforms.
- Most of the HP COBOL preprocessor and macros are supported on all ACUCOBOL-GT platforms.
- Target platforms include hp-ux, Linux, Windows, etc.
- More information at <http://www.acucorp.com/hp/main.html>



The new face of COBOL™  
**ACUCORP™**

## Acucorp Continues to Support HP e3000 Users

business partner



With the Hewlett-Packard Company's announcement of its five-year transition plan for HP e3000 users, enabling them to transition to other HP open standard server platforms, Acucorp has reaffirmed its commitment to the company and its platform. As evidence, Acucorp, a member of HP's Developer & Solution Partner program, is contributing to [HP's e3000](#)

# AD technologies

- Migration from cobol to cobol
- migration from spl to c
- migration from fortran to c
- migration from image to sql
- target platforms include hp-ux, unix, Linux, NT
- <http://www.adtech.com>



## *TransPort Can Port HP e3000 COBOL A*

TransPort will very soon be able to Port your MPE COBOL II applicati  
AcuCOBOL or MicroFocus COBOL.

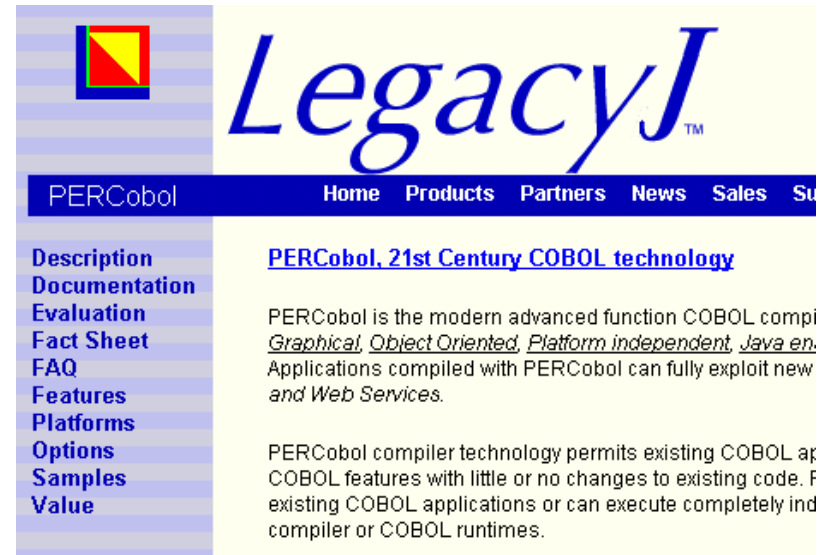
This means that our HP e3000 customers can now take advantage of o  
e3000 applications onto other platforms. For example; TransPort will  
HP-UX or Microsoft Windows or any platform of your choice.

Look forward to full support in February 2002.

If you have any questions concerning the project, please contact us at [i](mailto:info@adtech.com)

# LegacyJ

- PERCobol is the modern advanced function COBOL compiler
- PERCobol 3.0 and ViewJ 3.0 now available
- PERCobol contains a new IDE, MPE/iX migration and COBOL 2002 features
- ViewJ provide platform independent HP e3000 VPlus screen execution
- <http://www.legacyj.com>



The screenshot shows the LegacyJ website interface. At the top left is a logo consisting of a square divided into four quadrants of different colors (red, yellow, blue, green). To the right of the logo is the text "LegacyJ" in a large, blue, serif font. Below the logo and text is a dark blue navigation bar with white text for "PERCobol", "Home", "Products", "Partners", "News", "Sales", and "Support". On the left side of the page is a vertical menu with blue text links: "Description", "Documentation", "Evaluation", "Fact Sheet", "FAQ", "Features", "Platforms", "Options", "Samples", and "Value". The main content area has a yellow background. It features a blue link for "PERCobol, 21st Century COBOL technology". Below this link is a paragraph of text: "PERCobol is the modern advanced function COBOL compiler. *Graphical, Object Oriented, Platform independent, Java enabled.* Applications compiled with PERCobol can fully exploit new and Web Services." A second paragraph follows: "PERCobol compiler technology permits existing COBOL applications to be compiled with little or no changes to existing code. Existing COBOL applications can execute completely independent of PERCobol compiler or COBOL runtimes."



# how do you get to a new db?

- 3 options to choose from
  - image equivalent:
    - marxmeier software's eloquence product
  - image wrappers
  - redesign for embedded sql



# selecting an option

- questions to ask yourself
  - how long will you live with the application
  - how much the application will grow
  - what kind of accessibility you will need



# relative costs

- eloquence is a less expensive options
- wrappers bundled in with migration tools
- redesign is the most expensive option
  - more work than the other options



# problems that must be overcome

- data types that exist in image, but not in rdbmses:
  - e.g. arrays
- data types that exist in rdbms, but not in image
  - null items



# more problems

- master/detail relationship in image doesn't exist in rdbmses
- no such construct as automatic master in rdbms
- security and storage types are different
- sorted chains
- data not in chronological order in rdbms
- locking is different in an rdbms



# redesigning for embedded sql

- putting sql statements in a program
- pre-processor expands the sql statements into procedural calls.
- example:
  - chained read:
    - read customer orders in a chain
    - applications selects the records you want from the chain



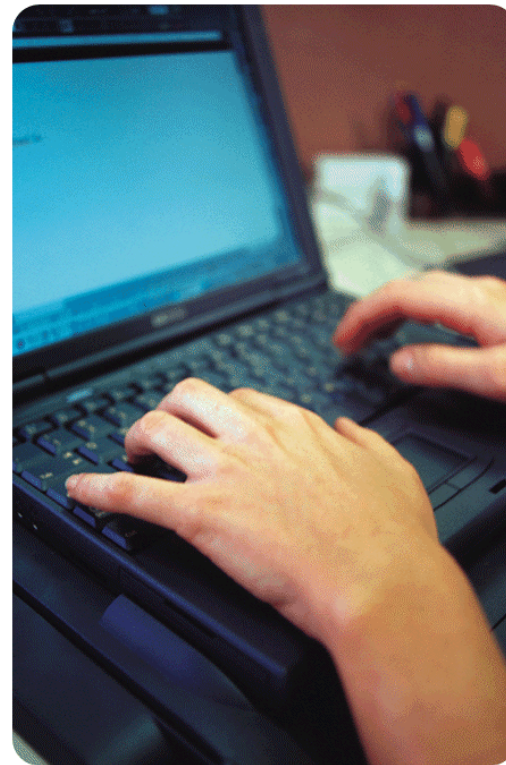
# how do you do the same thing in embedded sql?

- select statement with a “with” clause
  - collects exactly what you’re looking for
- select statement is expensive (cpu-wise)
  - just as expensive to have it retrieve all the data as a subset of the data.



# inefficient programming

- using a select to read the entire chain, and then programmatically filtering out the records you want is very inefficient
  - using sql statements as if they were ti intrinsics
  - can result in performance problems





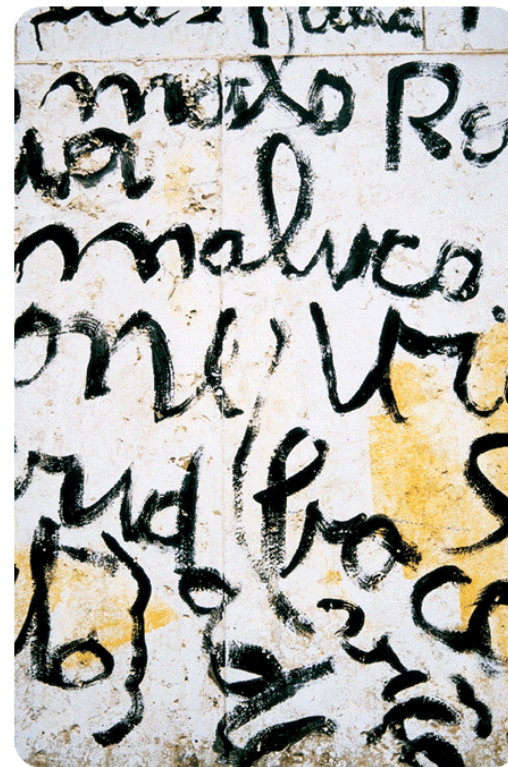
# how serious can the performance problems get?

- using embedded sql as if it was turboimage
  - performance could be 20-%-30% slower on the rdbms
  - good db structure
  - no very long chains
- “the programming style will look strange to them



# incompatible data types?

- data types supported by image
  - converting zoned numeric items (packed decimal)
  - no support in most rdbmses
- date types not supported by image
  - date items



# dates in turboimage

- dates typically defined as three numeric fields
  - year
  - month
  - day
- calendar arithmetic must be done by the application.



# dates in a relational dbms

- there is a data type for dates
  - date arithmetic is fully supported
  - restriction: date items can only contain valid dates
- in image, fields used for dates often contain invalid data
  - the string 99/99/99 might mean “not yet completed”



# array data items

- no 'array' type in the rdbms
  - option 1: replicate the concept of an array use 1 big column to represent the array
  - option 2: one column per array element
  - option 3: create a table to represent the array



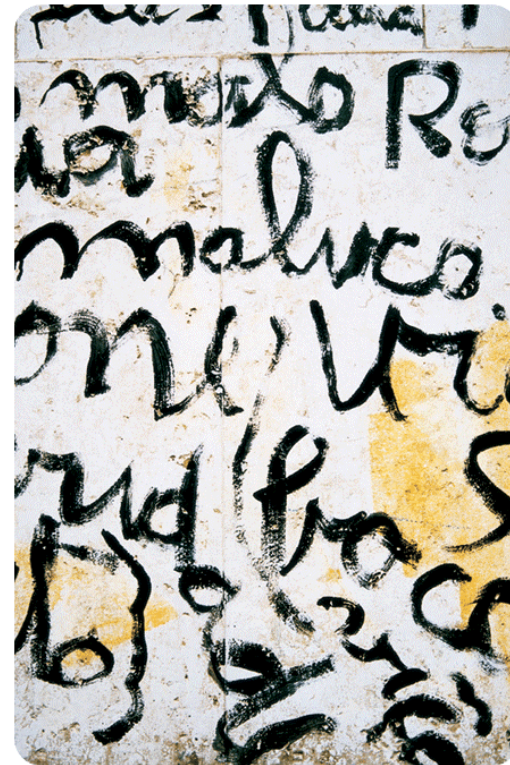
# “hidden” issues

- knowledge of the behavior of the application
  - for example: to avoid changing the structure of a ti database, people use fields for purposes other than the purpose indicated by the field name.



# solving data type incompatibilities

- data type problems less worrisome when using wrappers
- tools:
  - schema parser to create equivalent rdbms & handle incompatibilities
  - can normalize some of the data
- if you're using image wrappers, you still have to deal with the incompatibilities - but migration tools handle most of the problems for you



# what should an image wrapper do?

- running in “dual mode”
- allow customer application to access oracle on hp-ux from the e3000.
- ensure data is migrated properly
- allow migrated application on hp-ux to access turboimage on the e3000
- ensure application has been migrated properly





# image - conversion

- Data Structure Changes
- Data Type Changes
- Variable Name Changes
- Image Access Changes
- Data Migration



# Robelle

- Suprtool exports data to almost any format. and runs on HP-UX
- Suprtool extracts data from databases and files, sorts the records, and writes the sorted records to a file for further processing
- Qedit works on MPE and HP-UX and Qedit for Windows allows seamless cross-platform development

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robelle

Qedit Suprtool

*"I am totally addicted to both Suprtool and Qedit."*  
Tom Genute, NYLCare

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**WRQ: Customer Transition Plans**

The 3000 NewsWire reports that WRQ, the makers of Reflection terminal emulator for the 3000, have surveyed their many customers on their transition plans. Click link above to read the results.

4/22/2002

# image - extraction/ transformation/ transport middleware

- Used for decision support systems (DSS) and integration
- Does reformatting, syntax conversion, and has prebuilt transformations
- Content-based, rules-based transformation
- Real-time or bulk load API



# Taurus/Quest

## hp e3000 platinum tool

- Since 1987
- Move IMAGE balances, statuses and open transactions in bulk to the new application
- Allow new application modules to read and write to still active IMAGE applications
- Move IMAGE history to a small relational system for statutory records retention
- IT managers can use internal staff that can be productive with BridgeWare within a day
- [www.taurus.com](http://www.taurus.com)
- [www.quest.com](http://www.quest.com)



### Taurus Software

**Taurus can support you  
in your move to Open Systems**

Taurus Software has supported the HP3000 since 1987 with software for leveraging HP3000 data to Open Systems. Join our customers who use BridgeWare to move HP3000 data to other analysis and production RDBMSs.

- [Taurus Software has the Experience to Help IT Managers Migrate HP3000s to Open Systems](#)
- [Press Comment](#)

[NEW! Ecometry selects Quest/Taurus BridgeWare to enable applications designed for Ecometry's N-Tier architecture](#)

**Announcing the first Graphical Tool for Enterprise-Wide IMAGE Data Movement!**

**BI-Directional IMAGE—RDBMS Data Replication.  
Real Time. Real Easy.**



# Vital Soft, Inc.

- MatchPoint provides data replication and migration for TurboIMAGE and MPE/KSAM files. Data can be migrated to MS SQL Server (Windows platform) or Oracle (any platform)
- Visimage and ASKPLUS report writers for HP e3000 are also available for Oracle on HP-UX



**The Keys to Business Intelligence**

Let our experts show you how MatchPoint and Visimage can improve business intelligence on your HP e3000.

**VITAL Soft INCORPORATED**

"Vital Soft remains committed to supporting all of our existing HP e3000 customers as well as providing new products and services to assist customers transitioning to new platforms."

John Overton, President, Vital Soft, Inc.

More information on Vital Soft's [commitment](#) to the HP e3000 Platform.

Find out more about [Visimage](#), the report writer of choice for HP3000 professionals.

The [MatchPoint Replication Suite](#) offers a complete solution to replicate and incrementally update TurboImage databases to a SQL-based Decision Support Environment.

**VISIMAGE**

**MatchPoint**  
REPLICATION SUITE

# image - api access

- Support of all Image Intrinsic including DBGET & DBFIND modes
- Converting between Image and Relational data types and names
- Image locking
- “SQL Pass thru”



# IMAGE alternatives as you migrate

new

- hp eloquence -- an IMAGE alternative
  - evaluated by partner focus group & HP (SigSoftVend sponsorship)
  - technically endorsed by SIGImage
  - successful and well-regarded migration product in HP 250-260 installed base
  - being actively enhanced to add TurboIMAGE capabilities
  - working with Partners on integrated tools strategy
  - lightweight infrastructure today; evaluating a more robust model
  - Maintained, sold, & distributed through an ongoing HP relationship with Marxmeier
- wrappers (Oracle, SQLServer, others)
  - Disc OmniAccess
  - iMaxSoft

# hp eloquence delivers

- database integrity
  - physical and logical consistency
- database scalability
  - suitable for small/medium business requirements
- database compatibility
  - compatible intrinsics, modes and utilities
- available on
  - HP-UX
  - Windows NT
  - HP Linux





# CSL

- Linkway® BridgeMaster is the 'MPE to Anywhere Tool'. It allows an HPe3000 program access to any external data source as though it were resident on the HPe3000.
- read data directly from DB2, Oracle, Informix, Sybase, MS SQLServer, MS Access etc.
- write data directly to DB2, Oracle, Informix, Sybase, MS SQLServer, MS Access etc.

Press to Enter

Welcome to the home of LINKWAY® The world's best e-Connectivity for the HPe3000!

**CSL**  
COMPUTING  
SOLUTIONS  
LIMITED  
**HPe3000**

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Sales: [sales@cslink.com](mailto:sales@cslink.com)

End  
of

Announcement  
of the century! by e3000  
discontinued. Supported till 2006.

CSL are experts in HPe3000. The **only** HP Select Partner for e-Services in the UK, CSL have worked exclusively in the HPe3000 market for 24 years and offer the world's leading interoperability products to enhance the performance of your HPe3000 Enterprise Server.

CSL is a focal point for HPe3000 expertise. With over 200 man years of HPe3000 experience, the multi-faceted CSL operation can offer you world class solutions that meet the challenges of the new millennium. Partnering with you and with Hewlett-Packard is a serious business. Quality is a watchword at CSL where delivery meets expectation whatever the challenge, where efficiency and courtesy compliment professionalism and diligence and where customer satisfaction is our greatest satisfaction.

No organisation survives without providing real value to its customers and 24 years success is testimony to the quality that CSL brings to the HPe3000 marketplace.

Send mail to [webmaster@cslink.com](mailto:webmaster@cslink.com) with questions or comments about this web site.  
Copyright © 1997 Computing Solutions Limited. Last modified: November 14, 2001

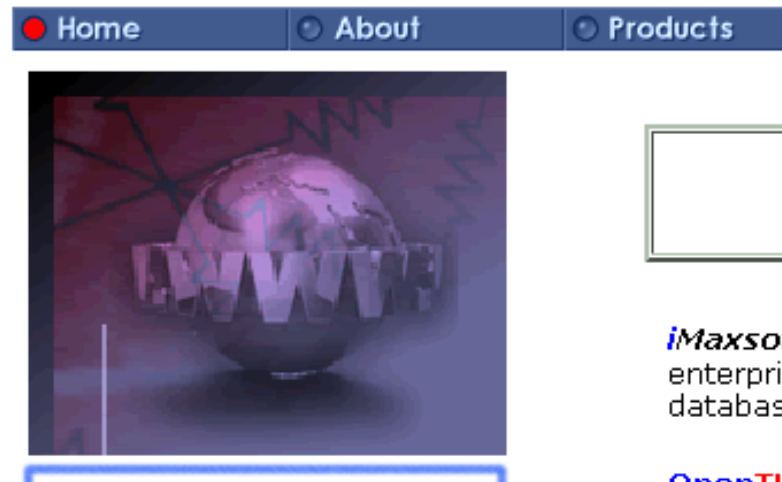
ICRA W3C HTML 4.01

Internet

# imaxsoft (LeeTech)

- openturbo transforms mpe-turbo applications into n-tier unix-oracle and window nt-sql server platforms either without any or with very minimum code change
- openturbo utilities convert turboimage data and its internal structure to oracle or sql server
- openturbo enables your mpe turbo applications to run concurrently on hp/3000 and hp/9000

**iMaxsoft**



# vplus

- Migrating the Screen
- Migrating the Processing Specs
- STDLIST
- Maintenance



# things to think about

- migration options
  - character mode architecture
  - client/server GUI
  - web GUI
- choosing an option
  - depends on language, UI being used
  - knowledge of UI design
- emulation of all (or part) of the mpe environment?



# one application can have multiple UI's

- classic manman application (mfg)
- six different user interfaces
- knowledge of user interface design
- alan cooper
  - “about face”



# UI design resources

- Graphic arts experience
- could be a graphics arts person who works on brochures
- Applies in environment in which you're re-engineering the whole application



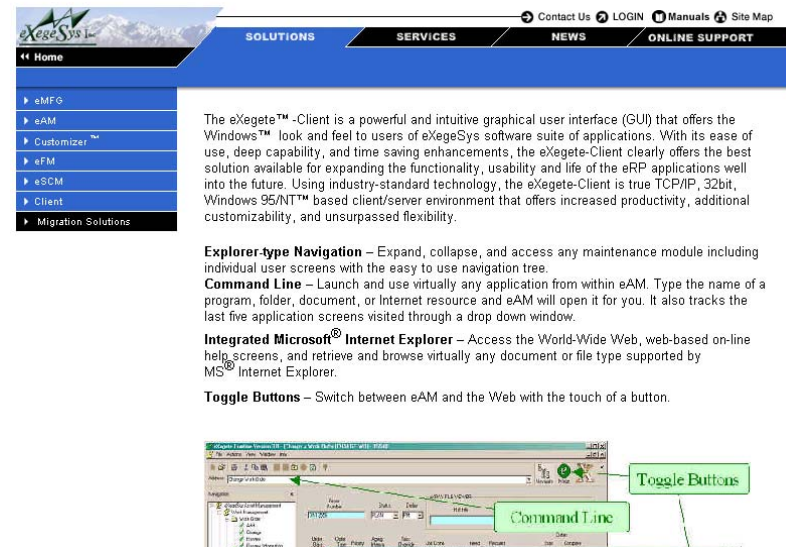
# tools to move what you have

- 40%-60% of the customers have vplus screens
- easily migrated
- ad technologies can convert forms files etc for use with acucobol
- vplus library
- code is unchanged



# eXegeSys

- Explorer-type Navigation – Expand, collapse, and access any maintenance module including individual user screens with the easy to use navigation tree
- Command Line – Launch and use virtually any application from within eAM
- Toggle Buttons – Switch between eAM and the Web with the touch of a button



The screenshot shows the eXegeSys website interface. On the left is a navigation tree with items: Home, eMFG, eAM, Customizer™, eFM, eSCM, Client, and Migration Solutions. The main content area contains text describing the eXegete™ -Client and lists features: Explorer-type Navigation, Command Line, Integrated Microsoft® Internet Explorer, and Toggle Buttons. A small application window is shown at the bottom with callouts for 'Toggle Buttons' and 'Command Line'.

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SOLUTIONS SERVICES NEWS ONLINE SUPPORT

Home

- eMFG
- eAM
- Customizer™
- eFM
- eSCM
- Client
- Migration Solutions

The eXegete™ -Client is a powerful and intuitive graphical user interface (GUI) that offers the Windows™ look and feel to users of eXegeSys software suite of applications. With its ease of use, deep capability, and time saving enhancements, the eXegete-Client clearly offers the best solution available for expanding the functionality, usability and life of the eRP applications well into the future. Using industry-standard technology, the eXegete-Client is true TCP/IP, 32bit, Windows 95/NT™ based client/server environment that offers increased productivity, additional customizability, and unsurpassed flexibility.

**Explorer-type Navigation** – Expand, collapse, and access any maintenance module including individual user screens with the easy to use navigation tree.

**Command Line** – Launch and use virtually any application from within eAM. Type the name of a program, folder, document, or Internet resource and eAM will open it for you. It also tracks the last five application screens visited through a drop down window.

**Integrated Microsoft® Internet Explorer** – Access the World-Wide Web, web-based on-line help screens, and retrieve and browse virtually any document or file type supported by MS® Internet Explorer.

**Toggle Buttons** – Switch between eAM and the Web with the touch of a button.

Toggle Buttons

Command Line



# GUI Innovations, Limited

- Move Sequential files, KSAM and Image data to MS Access, MS SQL Server, MySql
- GUI3000 - Control MPE and UNIX from the same screen



business partner 

*Compaq Solutions Alliance*  
iPAQ Handheld Solutions Developer

**COMPAQ**

## Welcome

GUI Innovations Limited is a Software Consultancy business and specialises in client/server applications with special reference to [Hewlett-Packard](#) e3000 systems, [Microsoft](#) SQLServer, Windows NT and Windows 2000. The company is now very active in the [Pocket PC](#) market and Pocket PC development, specialising in linking your Pocket PC to your corporate network and servers.

GUI Innovations undertakes on-site software and programming consultancy for long or short periods, and bespoke software development. The company is a Hewlett-Packard business partner, a member of the Compaq Solutions Alliance program, and also a Microsoft Mobile Solutions Partner. We are a small highly flexible company who take a lot of pride in all the work we do.

In the light of recent announcements about the future of the HPe3000, we will be continuing to support and develop our HPe3000 products up to and beyond December 2006.

You may be interested in the fact that we already have experience on several migration projects from the HPe3000



# Pixel Group

- Host Access Gateway – Server-based screen-scraping host integration technology turns virtually any green-screen application into data objects used by web, wireless and composite applications
- Host Access Open Object-Quickly enhances, rejuvenates or extends any legacy host application by integrating terminal emulation in a browser to easily create new graphical interfaces

The screenshot displays the Quovadx website interface. At the top, the Quovadx logo (stylized 'PIXEL' with a yellow star) and 'QUOVADX' are visible. A navigation menu includes 'Company', 'Products', 'Solutions', 'News', 'Events', 'Support', 'Services', 'Partners', and 'Downloads'. A 'Microsoft CERTIFIED Partner' badge is in the top right. Below the navigation, there are several content blocks:

- OEM Host Integration Available:** A blue header box followed by text: "Link your own applications and tools to any green screen application. OEM Pixel's Technology as your own Universal Host Adaptor." with a "<more>" link.
- Microsoft BizTalk Server:** A small image of the BizTalk Server logo.
- The ultimate in state-of-the-art Thin client solutions:** A blue header box followed by text: "Lower your total cost of ownership using the HostAccess Thin Client Solutions" with a link.
- Non-invasive Web Enable Any Green Screen Application:** A blue header box followed by text: "HostAccess Gateway quickly and easily delivers any green screen information in any host based legacy application to web solutions of any..."
- News Article:** "ENGLEWOOD, Colo., Jan. 10 /PRNewswire-FirstCall/ -- Quovadx, Inc. (Nasdaq: QVDX), formerly XCare.net, Inc. (Nasdaq: XCAR), a trusted provider of total business integration software and services, today announced that it has acquired the Pixel Group, a provider of integration and connectivity software with offices in the United Kingdom and Atlanta..." with a "Click Here for full article" link.
- Summary Text:** "Pixel specializes in providing the most flexible Host Integration solutions available today."

# Robust Systems

- VB-View provides a migration path from Hewlett Packard's VPlus terminal based applications to a true client/server GUI environment
- HP-UX with a Windows graphical VB-client or Internet Explorer client.

PAINLESSLY MIGRATE FROM YOUR OLD  
TERMINAL EMULATOR.....

Terminal-based application interface showing purchase order details. Fields include: Action Code, Purchase Order Review, Purchase Order Printed, P.O. Number: PNTAB506, Order No: 25.02.03, Required: 10.05.03, B.O. Number, PO Type: Catalog Ord, del Mode: 12, Vendor No: 01026, Status: Open, Revisions: 0, Start Item, Currency: U.S. Pound, Vendor Name: ALLIED PURCHASING SERVICES, Material Orig: 100.20, Buyer Name: SERAJ AHMED AL-HARB1, Additional Charge: 47.97, Expeditor: HADI, IBRAHIM A, Total Order Value: 235.35.

X	Item	Order	Recvd	U/M	SC	Description
1	1	1	1	EACH	05	CENTER LATHE REVOLVING, MODEL BR
2	20	20	20	EACH	05	MILL END, MM, BLK & HILKMAN STOCK

TO A FULLY FUNCTIONAL  
**Client Server Graphical**  
ENVIRONMENT

**VB-View**

From  
Robust Systems Inc.  
Tel: +281 242 2313  
[www.robustsystems.com](http://www.robustsystems.com)

Graphical client-server application interface showing purchase order details. Fields include: Action Code, Purchase Order, Purchase Order, P.O. Number: PNTAB506, Order No: 25.02.03, Required: 10.05.03, B.O. Number, PO Type: Catalog Ord, del Mode: 12, Vendor No: 01026, Status: Open, Revisions: 0, Start Item, Currency: U.S. Pound, Vendor Name: ALLIED PURCHASING SERVICES, Material Orig: 100.20, Buyer Name: SERAJ AHMED AL-HARB1, Additional Charge: 47.97, Expeditor: HADI, IBRAHIM A, Total Order Value: 235.35.

X	Item	Order	Recvd	U/M	SC	Description
1	1	1	1	EACH	05	CENTER LATHE REVOLVING, MODEL BR
2	20	20	20	EACH	05	MILL END, MM, BLK & HILKMAN STOCK #22-7014-B

**Robust Systems Home Page**

# ScreenJet, Ltd

- Graphical User Interface conversion on HP3000
- Replacement V/Plus API for migration, plus additional V/Plus conversion formats for ACUCOBOL and an XML & XHTML Browser format
- In January, Acucorp, Inc. has announced a technology alliance with ScreenJet Ltd

**ScreenJet & Acucorp Announce Alliance**

Acucorp, Inc. has announced a technology alliance with ScreenJet Ltd. Acucorp and ScreenJet plan to offer a software migration solution for COBOL-VPLUS applications running on the HPe3000. With this new solution, programmers can migrate existing COBOL-VPLUS applications to UNIX, Linux or Windows NT by using the ScreenJet™ toolkit to convert VPLUS forms directly into Acucorp's AcuBench™ development environment. For the full text of the press release, [click here](#). To receive further information on Acucorp and ScreenJet migration tools, [click here](#).

To read the ScreenJet V/Plus Enhancement and Migration Strategy Overview, [click here](#). A V/Plus Migration White Paper has just been published by ScreenJet. To download a free copy, [click here](#).

**ScreenJet Designer**

ScreenJet Designer provides an alternative to V/Plus. Using ScreenJet Designer you build your own Graphical user Interface File by extracting the layout and characteristics of your V/Plus form and then interacting to enhance the screen layout to meet modern GUI requirements. ScreenJet

And Converts it to THIS: →

# WRQ

- Specializing in integration software and services that let you quickly adapt your host-intensive environment to meet new business needs.
- Supplier of reflection for windows & reflection for the web

The screenshot shows the WRQ website homepage. At the top, there is a navigation bar with the WRQ logo and links for CUSTOMERS, PRODUCTS, SERVICES, and PARTNERS. Below the navigation bar, a main banner features the text: "We specialize in integration software and services that let you quickly adapt your host-intensive environment to meet new business needs." To the right of this text is a photograph of a smiling man with glasses. Below the banner is a section titled "WHAT'S YOUR BUSINESS CHALLENGE?" which is divided into three columns. The first column is titled "IMPROVE YOUR CUSTOMER RELATIONSHIPS" and mentions AT&T's call center response time reduction. The second column is titled "GET A STRONG RETURN ON YOUR INVESTMENTS" and mentions Heartland Financial's automated business processes. The third column is titled "ADAPT RAPIDLY TO MERGERS AND ACQUISITIONS" and mentions Spectratech's market share increase. Each column has a "FIND OUT HOW" link with a red arrow. Below this section is a "WRQ WORLDWIDE" section with a "Choose your country" dropdown menu. At the bottom left, there are links for CONTACT US, SEARCH, SITE MAP, TERMS OF USE, and FEEDBACK. At the bottom right, there is a red box with the text: "Ready for some straight talk about web services in legacy environments? Register for Web Services for Legacy-Intensive Environments, a web seminar co-sponsored by WRQ and Hurwitz Group." To the right of this box is the WRQ logo and the tagline "ACCESS. INTEGRATE. TRANSFORM."

# file system

- MPE naming  
(FILE.GROUP.ACCT)
- File Types
- File Attributes
- File Labels
- File Equations



# intrinsic

- Stand Alone
- Pass Thru
- Complex



# ci/jcl

- MPE Simulator
- Translator
- “Complex” JCL
- Utilities (FCOPY, SORT/MERGE)
- UDCs
- Batch Processing
- Spooled Output





# maintenance and support

- Continued Application Evolution
- Run Times



# Serena Software, Inc.

- Serena ChangeMan DS is a software change management solution that ensures source code integrity as files are migrated from MPE/iX to HP-UX, Linux, or Windows platforms



# platinum tools and partners

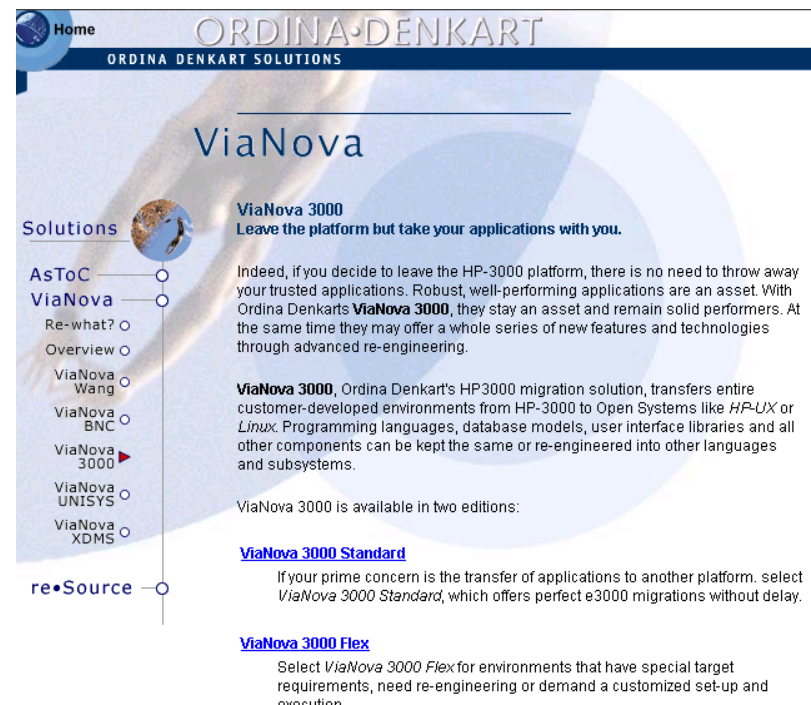
- hp e3000 Platinum tools
  - Denkart
  - DISC
  - NearTek
  - Sungard/Bi-Tech
  - Transoft
- hp e3000 platinum partners
  - Lund
  - MB Foster
  - Speedware



# Denkart

## hp e3000 platinum tool

- ViaNova 3000 Standard
  - Provides for the transfer of applications to another platform
- ViaNova 3000 Flex
  - For environments that have special target requirements, need re-engineering or demand a customized set-up and execution
- [www.denkart.com](http://www.denkart.com)



The screenshot shows the Ordina Denkart website. The header includes "Home" and "ORDINA DENKART" with "ORDINA DENKART SOLUTIONS" below it. The main heading is "ViaNova". A sidebar on the left lists "Solutions" with a globe icon, and a vertical menu with items: "AsToC", "ViaNova" (highlighted), "Re-what?", "Overview", "ViaNova Wang", "ViaNova BNC", "ViaNova 3000" (with a red arrow), "ViaNova UNISYS", "ViaNova XDMS", and "re•Source". The main content area features the heading "ViaNova 3000" and the sub-heading "Leave the platform but take your applications with you." Below this is a paragraph: "Indeed, if you decide to leave the HP-3000 platform, there is no need to throw away your trusted applications. Robust, well-performing applications are an asset. With Ordina Denkart's **ViaNova 3000**, they stay an asset and remain solid performers. At the same time they may offer a whole series of new features and technologies through advanced re-engineering." This is followed by another paragraph: "**ViaNova 3000**, Ordina Denkart's HP3000 migration solution, transfers entire customer-developed environments from HP-3000 to Open Systems like *HP-UX* or *Linux*. Programming languages, database models, user interface libraries and all other components can be kept the same or re-engineered into other languages and subsystems." Below this, it states "ViaNova 3000 is available in two editions:" and lists two options: "[ViaNova 3000 Standard](#)" and "[ViaNova 3000 Flex](#)". Under "ViaNova 3000 Standard", it says "If your prime concern is the transfer of applications to another platform, select *ViaNova 3000 Standard*, which offers perfect e3000 migrations without delay." Under "ViaNova 3000 Flex", it says "Select *ViaNova 3000 Flex* for environments that have special target requirements, need re-engineering or demand a customized set-up and execution."

# DISC

## hp e300 platinum tool

- OMNIDEX on desired database and hardware platform
- Network Services to facilitate data migration across platforms
- OmniAccess cross-platform database and operating system API
- MPE Library that converts key Turbolimage, MPE File System, and MPE Operating System calls to the OmniAccess cross-platform library
- Turbolimage-to-SQL DDL (Data Definition Language) program that generates DB2, Oracle or SQL Server-specific DDL from an existing Turbolimage database
- JDBC and ODBC, API, and drivers for standards-based application development of converted applications
- [www.disc.com](http://www.disc.com)

The screenshot shows the DISC website interface. At the top, there is a navigation bar with links for Search, Site Map, Contact Us, Home, and Remarkable Data Agility. The main content area features a press release titled "DISC Offers HP e3000 Migration Software and Services" dated November 14, 2001, from Boulder, CO. The press release text describes the availability of software and services for migrating HP e3000 customers to other computing platforms. A contact box for Terry O'Brien, Executive Vice President, is provided with his phone number (303) 444-4000 and email address tobrien@disc.com. The website also includes a sidebar with navigation links like "What's New", "Company", "Products", "Press/Events", "Partners", "Library", and "Support". On the right side, there are sections for "For more info, please see:" with links to "Migrating Off the HP e3000", "The OmniAccess API", and "Return to Press Releases". Below that are several dropdown menus for "What is OMNIDEX?", "Why is it So Incredibly Fast?", "Where Can it Help Me?", "Who Uses OMNIDEX?", "Can I See it in Action?", and "How Can I Learn More?". At the bottom right, there is a "Have a question or comment? Send e-mail to [info@disc.com](mailto:info@disc.com)" link.

# neartek

## hp e3000 platinum tool

- neartek's AMXW software migration tool
- moves data from image, ksam and flat files to other platforms
- runs hp e3000 jcl
- most hp e3000 intrinsics covered through a shared library
- hp cobol to microfocus cobol
- target platforms include unix, windows, and linux.
- <http://www.neartek.com/virtualstoragesoftware/amxw.htm>



### **Automatic Migration from HP 3000 to Unix, Windows, or Linux**

Nearthek's AMXW software migration tool is the most comprehensive solution on the market today for HP3000 systems whose applications and information must eventually be ported to new environments such as Unix, Windows, and Linux. Hewlett-Packard promotes AMXW to customers as a pathway having the best technical and financial features for prolonging application lifetime and safeguarding data investment.

Migrations are easy to set up with AMXW, whose tailorable translation parameters offer exceptional flexibility and adaptability for use with customized applications. The migration process covers all logical components including applications, databases, interfaces, files, and scripts. Once the parameters and platforms are set up, AMXW can attain a performance of 1 million translated lines per day.

# Sungard/Bi-Tech

## hp e3000 platinum tool

- since 1988
- automated translation of native mpe-based systems to unix
- transport™ will currently convert and transfer cobol source code, copylibs, image schemas, image data and vplus forms files.
- emulates most mpe commands
- most mpe intrinsics have also been emulated.
- <http://sungardbi-tech.com>
- <http://transport.bi-tech.com>

**SUNGARD®**  
BI-TECH INC.

Home  
COBOL  
IMAGE  
VPLUS  
KSAM  
Intrinsic  
JCL & CI  
Utilities  
Distributors

With the recent announcement by Hewlett Packard of the "end of life" of the HPe3000, there has been considerable interest in tools to assist customers to migrate to other platforms. SunGard Bi-Tech has a long history with just such a toolset, and this website was designed to give an overview of our product, TRANSPORT™, and links to our current distributors.

In 1988, [SunGard Bi-Tech](#), realizing the growing UNIX marketplace, recognized the need for a product which would migrate COBOL applications developed on the HP3000 to the growing range of UNIX machines which were becoming available. The resultant product, TRANSPORT™, offers the **automated** translation of Native MPE-based systems to the UNIX equivalent (notably the HP9000 HP-UX, the RS/6000 AIX, and Sun Solaris) with an application environment that mimics MPE. Currently TRANSPORT™ supports Oracle 8 and Informix 7+ on the following platforms: HP9000 HP-UX, RS/6000 AIX

# Transoft

## hp e3000 platinum tool

- Provide an I/O mapping module that converts access to IMAGE data to Oracle and SQL Server
- Utility programs to unload IMAGE, KSAM, Allbase and HP flat files and transfer them to the target platform
- Utility that emulates VPLUS on UNIX and Windows platforms, in a dumb terminal or java based graphical environment
- Convert JCL to PERL scripts
- HP Intrinsic emulations in COBOL and C, allowing direct replacement of Ininsics
- [www.transoft.com](http://www.transoft.com)



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**Transoft**  
e-evolutionary solutions

To receive 'headlines' - our email newsletter, please [click here](#)

[To obtain more information on Transoft, please click here.](#)

### Where Do You Go After the HP 3000?

#### Anywhere You Want !

You didn't ask for it, but the HP 3000 is going away. If you're like most HP 3000 users, you're now trying to make a choice. Transoft has an alternative to starting over or even migrating. It's called Transoft Application Transformation.

With Transoft Application Transformation solutions you can do more than just solve your immediate migration problem. You can position your HP 3000 application as the platform for solving your immediate and future business problems.

Over the last fifteen years, hundreds of companies have improved their legacy applications with Transoft. That's because Transoft offered them a breadth of choices no one else could match and a proven track record no one could refute.

See for yourself what Transoft can do for your HP 3000 applications by joining an upcoming "Anywhere You Want" Webinar.

**Available Dates:**

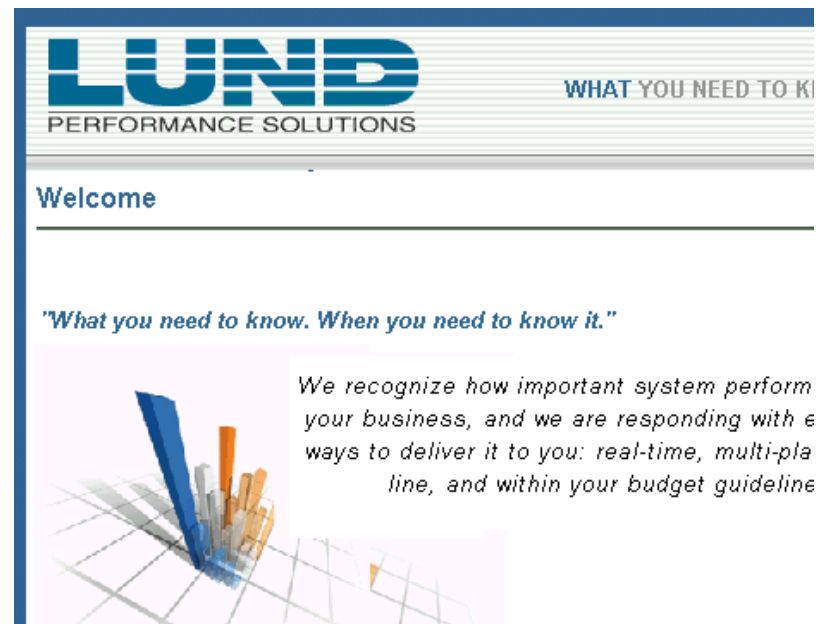
- Thursday, March 7th at 12:30pm EST
- Thursday, March 21st at 12:30pm EST
- Thursday, April 11th at 12:30pm EST



# Lund

hp e3000 platinum partner

- full service migration partner
- access to all migration tools and services
- detailed assessment of your current system
- help you choose the best new platform
- detailed transition plan



**LUND**  
PERFORMANCE SOLUTIONS

WHAT YOU NEED TO KNOW

Welcome

*"What you need to know. When you need to know it."*

*We recognize how important system performance is to your business, and we are responding with effective ways to deliver it to you: real-time, multi-platform, and within your budget guideline*

# MB Foster

hp e3000 platinum partner

- full service migration partner
- access to all migration tools and services
- mbf-udalink for data access and delivery including batch reporting

*Forging the Future*

Company Products Migration Services Support Library

Creating The Tools Today ...  
For The Needs Of Tomorrow.

#### Focus On

- [The Foster Report - Volume 2 Issue 1 \(March2002\)](#)  
In this issue - JDBC driver has arrived, migration solutions and much more.
- [MPE Migration Strategy](#)  
Join us for an On-Line Seminar and find out how we can help!  
Next Session: May 1st, 2002.

# Managed Business Solutions

hp e3000 platinum partner

- Assessment service – MBS works closely with your team to evaluate your environment and provide recommendations.
- Migration services – MBS has services designed to effectively migrate Legacy HP 3000 to a new platform.
- 24 x 7 application support – MBS provides 24 x 7 support for virtually any application.

The screenshot displays the MBS website interface. At the top left is the MBS logo with the tagline "beyond the call...". Below the logo is a navigation menu with links for "About MBS", "Solutions", "MBS: IT application support and integration services", "Contact Us", and "HOME". The main content area on the left contains text describing MBS's services since 1993, highlighting their 200 employee-owners and their focus on legacy and next-generation enterprise systems. On the right side, there is a search bar with a "Go!" button and a dropdown menu for "Services on Demand". Below the search bar, there are two promotional boxes: one for "HP e3000 & BEYOND" with a link to "Find out more about MBS' Migration Solutions", and another for "business partner" with the HP logo and a link to "MBS selected as HP Platinum Partner". At the bottom, there are three service boxes: "24 X 7 TECHNICAL HELP DESK", "24 X 7 SUPPORT SERVICES", and "INTEGRATION ENGINEERING SERVICES", each with a brief description of the service. The footer contains contact information: "200 South Collee Ave. Fort Collins. CO 80524", "800.421.1016", and "mbs@thinkmbs.com".

# Speedware

hp e3000 platinum partner

- full service migration partner
- access to all migration tools and services
- complete migration solution package for Transact



## **Speedware for Transact - A Complete Migration Solution**

We have developed a complete migration solution package for Transact customers contemplating migrating off the HP e3000 platform.

Take advantage of our *Free basic Transact application migration evaluation*

# ...and tools to cover other areas

other environments	re-engineering tools (examples)	simulation tools (examples)
Speedware, Cognos, Transact ...	Speedware, Cognos, VB, Java, XML, ...	Speedware, Cognos
Application Environment (C, Fortran, Pascal, Basic, RPG, SPL ...)	C++, Java, VB, SPL/UX, ...	Speedware, Cognos, AD Technology, Allegro, Richter SW, ...
Database (Allbase)	Native RDBMS (Oracle, SQL-Server, ...) Data Movement & Data Access (Quest/Taurus, MB Foster, VitalSoft, Robelle WRQ, Willow, DISC,...)	

# non-cobol apps

- Cognos & Speedware
- Other Compilers
- Transact
- RPG
- Business Basic
- Mixed Environments



# Cognos

- focus in
- our efforts in the areas of new PowerHouse application migration training
- migration tips and techniques
- working with strong contingent of Cognos Migration Partners on migration programs and services worldwide

The screenshot shows the Cognos website homepage. At the top left is the Cognos logo. To its right is a navigation menu with links for COMPANY, PRODUCTS, USING BI, CUSTOMER SUCCESSSES, and CUSTOMER SERVICES. Further right is a dropdown menu for International Sites. Below the navigation is a main content area with a blue sidebar on the left containing links for Reporting & Analysis, Scorecarding, Budgeting & Planning, Business Intelligence Framework, Analytic Applications, and Investor Relations. The main content area features a large image of a man in a blue sweater with his hand to his chin, surrounded by other people. Text overlaid on the image reads: "I'M CONNECTED TO THE INFORMATION TO MAKE THE RIGHT DECISIONS." Below the image is a banner that says "CORPORATE PERFORMANCE MANAGEMENT FROM COGNOS >>".

**HP e3000 Transition Tools Partner Matrix  
March 2002**

<b>Partner</b>	<b>Coverages</b>	<b>Distribution Model</b>
AcuCorp	Languages, DB Access, Intrinsic, VPLUS, Development Env.	3rd Party Direct
AD Technologies	Data Migration (Cobol, Fortran, SPL, Image)	3rd Party Direct
Bradmark	Data Migration (DB)	3rd Party Direct
Cognos	4GL and DB Access	3rd Party Direct
Denkart	Data Migration, VPLUS, JCL, Intrinsic, Languages, MPE Utilities	Platinum Program
DISC	DB Access & APIs, Data Migration, JCL, Development Env (Cobol converters)	3rd Party Direct, Platinum Program
Envoy Technologies Inc	MPE Utilities	3rd Party Direct
eXegesys	VPLUS	3rd Party Direct
GUI Innovation Limited	Data Migration, MPE Utilities	3rd Party Direct
HP Eloquence	Image DB Replacement	3rd Party Direct
iMAXSoft	Data Migration (Image), MPE Utilities	3rd Party Direct
LegacyJ	VPLUS, Languages	3rd Party Direct
MB Foster	Data Migration (DB), MPE Utilities	3rd Party Direct, Platinum Program
Near Technolgoies (Neartek)	DB Access, Data Migration, VPLUS, JCL, Intrinsic, Languages, MPE Utilities	Platinum Program
Pixel Group	Data Migration (User I/Fs)	3rd Party Direct
Robelle	Data Migration, MPE Utilities, Development Env	3rd Party Direct
Robust Systems	VPLUS	3rd Party Direct
Screenjet Ltd	VPLUS	3rd Party Direct
Serena Software, Inc	Languages	3rd Party Direct
Speedware Corporation	DB Access, Data Migration, Development Env	3rd Party Direct, Platinum Program
SunGard Bi-Tech	Data Migration, VPLUS, Languages, Development Env	Platinum Program
Taurus (Quest)	Data Migration	3rd Party Direct, Platinum Program
Transoft	DB Access, Data Migration, VPLUS, JCL, Intrinsic, Languages, MPE Utilities	3rd Party Direct, Platinum Program
Vital Soft, Inc	Data Migration, MPE Utilities	3rd Party Direct
Whisper Technology	MPE Utilities, Development Env	3rd Party Direct
Willow Technology, Inc	Data Migration	3rd Party Direct
WRQ, Inc	Data Migration (DB), VPLUS	3rd Party Direct



# transition tools & services matrices

- visit HP website for latest transition partners program (tools & services matrixols & services matrix):  
<http://www.hp.com/go/e3000partners>
- tools: click “hp e3000 transition tools partners”
- services: click “hp e3000 transition services partners”



## **transition program office**

- centralized resource and migration assistance for sales teams
- makes it easy for sales reps to engage the resources you need
- end-to-end solutions
- worldwide focus

## **marketing center**

- access to communications, training, collateral, trade-shows, programs and promotions
- focus on North America (Latin America, Europe, & Asia-Pacific regions handled separately)

## **migration center**

- access to all technical teams, including MPE, HP-UX, Linux, Windows/NT, HP Education, Consulting, Training, Support, Sales and Outsourcing
- focus on North America



# hw and sw programs for customers

Component	Objectives	Update
<b>3K to 9K Conversion</b>	<ul style="list-style-type: none"> <li>• Zero cost OS and HW conversion from 3000 to 9000</li> </ul>	<ul style="list-style-type: none"> <li>• Offered on A and N-class HP e3000</li> <li>• Available until December 31, 2006</li> </ul>
<b>Trade-In Discounts</b>	<ul style="list-style-type: none"> <li>• Low cost OS and HW alternative to move from older 3000s to current 9000s</li> </ul>	<ul style="list-style-type: none"> <li>• Up to \$90,000 in rebates being offered depending on size of system</li> </ul>
<b>Loaner Systems</b>	<ul style="list-style-type: none"> <li>• Provide free loaners for customers who have only one or two 3000s</li> </ul>	<ul style="list-style-type: none"> <li>• Free six month loaner systems (9000, Wintel, Linux) for migration purposes</li> <li>• 40% discount for 9000s or leasing option after six months</li> <li>• IA loaner process being defined</li> </ul>
<b>Mission Critical &amp; Enterprise OS</b>	<ul style="list-style-type: none"> <li>• Aggressive discounts for this OS</li> </ul>	<ul style="list-style-type: none"> <li>• 50% discount announced</li> </ul>
<b>Database Strategy</b>	<ul style="list-style-type: none"> <li>• Provide database alternatives for large and small/medium-sized customers</li> </ul>	<ul style="list-style-type: none"> <li>• Filling in value chain for HP Eloquence (low cost alternative)</li> <li>• Oracle for large customer, no blanket discount available</li> </ul>
<b>NetServers</b>	<ul style="list-style-type: none"> <li>• Discounted pricing to encourage move to IA-32 and IA-64</li> </ul>	<ul style="list-style-type: none"> <li>• Trade-in HP e3000 servers and receive 15% discount off the HP IA-32</li> </ul>
<b>Storage Systems</b>	<ul style="list-style-type: none"> <li>• Rebates for upgrading storage or converting from competition</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing program, non-specific to e3000</li> </ul>

# 3000 to 9000 conversion kits

A400 110 MHz Server (A6398B)	rp2400 440 MHz Server (A6109B)
A500 140 MHz Server (A6399B)	rp2450 440 MHz Server (A5570B)
A400 150 MHz Server (A7018C)	rp2430 650 MHz Server (A6889A)
A500 200 MHz Server (A7019C)	rp2470 650 MHz Server (A6890A)
N4000 220 MHz (A6449B)	rp7400 440 MHz (A3639B)
N4000 330 MHz (A6450B)	rp7400 440 MHz (A3639B)
N4000 440 MHz (A6451B/A6452B)	rp7400 440 MHz (A3639B)
N4000 550 MHz (A6453B)	rp7400 550 MHz (A3639B)
N4000 380 MHz (A6103C)	rp7400 750 MHz (A3639C)
N4000 500 MHz (A6914C)	rp7400 750 MHz (A3639C)
N4000 750 MHz (A7014C)	rp7400 750 MHz (A3639C)

# services programs for customers

Component	Objectives	Update
<b>3 for 3 Promotion &amp; Transition Support Services</b>	<ul style="list-style-type: none"> <li>• Lower cost of support on target HP platform</li> <li>• Assist PSS &amp; CSS customers with migration focused activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ 9000 or 3000 used for migration</li> </ul>
<b>3.89% APR for 36 Months</b>	<ul style="list-style-type: none"> <li>• Provide attractive finance options</li> </ul>	<ul style="list-style-type: none"> <li>• 3 month payment deferral also available</li> </ul>
<b>System Inventory Utility</b>	<ul style="list-style-type: none"> <li>• Tool to determine types of files on 3000 systems</li> </ul>	<ul style="list-style-type: none"> <li>• Available free to download <a href="http://jazz.external.hp.com/src/scripts/siu/index.html">/jazz.external.hp.com/src/scripts/siu/index.html</a></li> </ul>
<b>Public Access 9000</b>	<ul style="list-style-type: none"> <li>• Quick and inexpensive access to HP 9000 system</li> </ul>	<ul style="list-style-type: none"> <li>• Available free to any customer</li> <li>• Migration tools providers making tools available on this system</li> </ul>

# services programs for customers

Component	Objectives	Update
<b>HP-UX, Linux, Windows Training</b>	<ul style="list-style-type: none"> <li>• Basic fundamental training</li> <li>• Provide HP-UX, Linux, Windows fundamentals</li> </ul>	<ul style="list-style-type: none"> <li>• Working on transition guide, white papers, and webcasts</li> <li>• Cross-reference tools</li> <li>• Discounts on in-depth training</li> </ul>
<b>Migration Webcasts</b>	<ul style="list-style-type: none"> <li>• Convenient concept migration training</li> </ul>	<ul style="list-style-type: none"> <li>• Four webcasts done; 2 more planned</li> <li>• Available for playback on the web</li> </ul>
<b>Platinum Program</b>	<ul style="list-style-type: none"> <li>• Lower cost access to migration tools</li> <li>• Fill in value chain of migration tools</li> <li>• Offered by partners well known to the HP e3000 community</li> </ul>	<ul style="list-style-type: none"> <li>• 4 partners signed up – Speedware, MB Foster, Lund, MBS; 6 tools announced</li> <li>• Program announced to customers</li> </ul>
<b>HP Consulting</b>	<ul style="list-style-type: none"> <li>• Provide discounted services for corporate and enterprise customers</li> </ul>	
<b>HP Outsourcing</b>	<ul style="list-style-type: none"> <li>• Provide outsourcing options for HP 3000 systems</li> </ul>	<ul style="list-style-type: none"> <li>• Reseller partners also providing lower cost alternatives (Logical, Dimension Data)</li> </ul>

# partner programs

Component	Objectives	Status
<b>ISV and Tools Partners Contacted</b>	<ul style="list-style-type: none"> <li>All HP e3000 partners contacted and briefed on migration and partnering options</li> </ul>	<ul style="list-style-type: none"> <li>All partners contacted by DSPP alliance managers</li> <li>Account teams for top partners</li> </ul>
<b>Partner Event</b>	<ul style="list-style-type: none"> <li>Provide update on all platform roadmaps and networking event to meet HP technical personnel for other platforms</li> </ul>	<ul style="list-style-type: none"> <li>Free partner forum scheduled for June</li> </ul>
<b>HP-UX, Linux, Windows Fundamentals Training</b>	<ul style="list-style-type: none"> <li>Provide training on mapping MPE commands and tasks to HP-UX, Linux, Windows</li> </ul>	<ul style="list-style-type: none"> <li>Webinar training available Aug 1</li> </ul>
<b>In-Depth Training</b>	<ul style="list-style-type: none"> <li>Provide HP-UX in depth training at no cost or very discounted based on space available on existing classes</li> </ul>	<ul style="list-style-type: none"> <li>No cost seats offered to SIGSOFTVEN, SIGCONSULT, and DSPP members</li> </ul>
<b>Refurbished 3000s</b>	<ul style="list-style-type: none"> <li>Provide low cost alternatives for used 3000s</li> </ul>	<ul style="list-style-type: none"> <li>25% discount on Phoenix systems for DSPP members</li> </ul>
<b>Coupon Book Promotion</b>	<ul style="list-style-type: none"> <li>Provide way for partners to promote their migrations tools and services</li> </ul>	<ul style="list-style-type: none"> <li>Finishing content, mailing in July</li> </ul>

# solution

- running Oracle Financials on the HP 9000 with Amisys solution on the HP 3000
- data replicated between the two solution for the last nine months
- moved over 19 million records in 3.75 hours or 700MB/hour







# Ecometry

- leading provider of managed business solutions for human resources to Fortune 500 companies
- \$1 billion in revenues
- need for an open, scalable, multi-tiered application architecture to keep in step with the rapid business growth being experienced
- to be in a positive position to take advantage of emerging technologies
- y2k testing



# Ceridian

- Ceridian takes the hp e3000 migration plunge with some help from hp services' consulting



# challenges

- leading provider of managed business solutions for human resources to Fortune 500 companies
- \$1 billion in revenues
- need for an open, scalable, multi-tiered application architecture to keep in step with the rapid business growth being experienced
- to be in a positive position to take advantage of emerging technologies
- y2k testing



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting

# solution

- hp services' consulting
- conversion from the hp e3000 997/600 and 987/200 to 2 v-class hp 9000 servers
- Powerhouse on MPE converted to Powerhouse on HP-UX
- HP OpenView Network Node Manager
- IT Operations



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting

## solution (cont.)

- Taurus/Quest Bridgeware tool
- 206 different IMAGE datasets across 10 databases
- 400 million records totalling 38 GB had to be moved
- ran HP 3000 and HP 9000 in parallel for most of the two year project



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting

## solution (cont.)

- iteratively tested bulk moves from the HP3000. Once the logic was proven, the logic for moving incremental HP3000 data changes was tested
- BridgeWare moved and kept in synch some 38 GB of critical data, moving up to 17 million records per hour
- more problems with data cleansing than anticipated



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting

# lessons learned

- hp project management avoided project slippage due to the complexity of the migration
- not all the code and JCL were used or needed, analysis would have avoided some of the unnecessary conversion



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting

# results

- improved performance
- greater scalability – 30% better than 3000
- better integration capabilities
- internet access



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting



# why hp?

- hp and Ceridian teams worked efficiently together
- maintained overall responsibility and accountability for entire migration activity
- good solid team of people



Ceridian takes the hp e3000 migration plunge with some help from hp Services' consulting



# what Ceridian is saying

“Ceridian’s migration from the HP e3000 to the HP 9000 was a success! What we did was the right thing to do. Ceridian is much better off than it was before... the HP people were great and they built a solid team that stuck it out until the project was completed.”

David Goodman  
Senior Vice President  
of Product Development  
for Ceridian



## CT3, Inc.

- CT3 reaps benefits of increased options in migration to hp-ux server





# challenges

- established in 1992 to meet the business and software needs of the timber and wood product industry
- migrate from an HP e3000 to HP 9000 for large customer
- 1995, HP-UX fairly new OS





# solution

- conversion from the hp e3000 to hp 9000 servers
- Designer by Speedware
- Oracle database





# lessons learned

- take advantage of training and education despite aggressive implementation schedules





# results

- increased options
- high performance
- high reliability





## what CT3 is saying

“HP customers should definitely consider an an HP-UX server as an alternative to the HP 3000 if reliability and consistency are what they’re looking for.”

Steve Hall  
President, CT3, Inc.







*Pacifica Papers Inc.*

# Pacifica Papers, Inc.

- hp cultivates an IT environment for Pacifica Papers

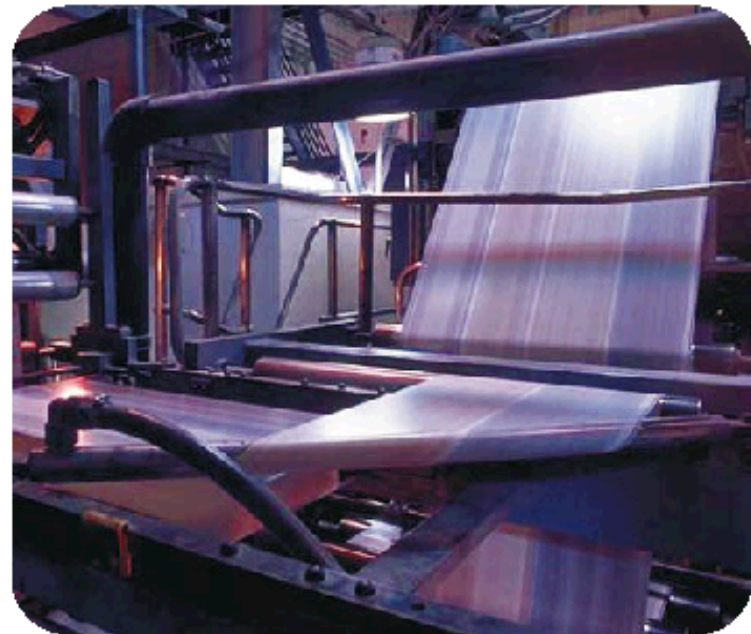




*Pacifica Papers Inc.*

# challenges

- paper manufacturer for printing and communication papers
- build a scalable solution tailored to specific needs
- increase database capabilities
- needed complete picture of the entire enterprise

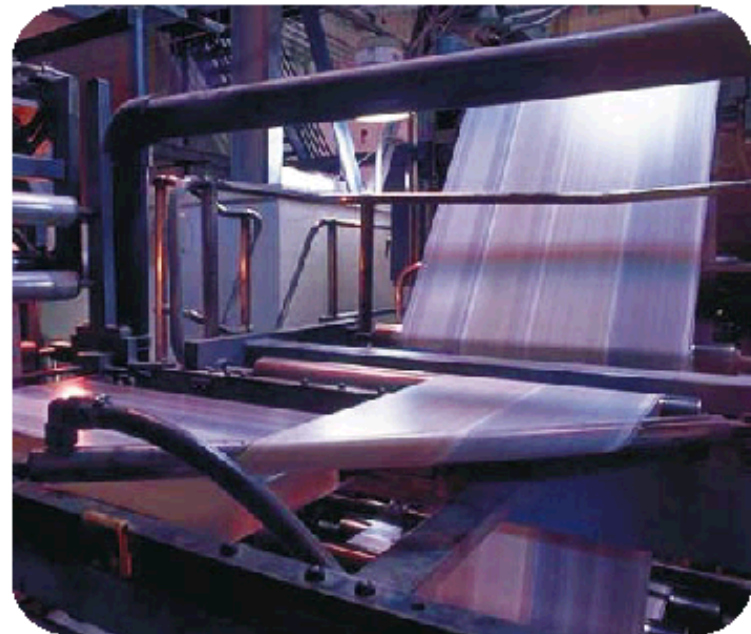




*Pacifica Papers Inc.*

# solution

- hp services' consulting
- conversion from the hp e3000 to hp 9000 servers for application, database, and development servers
- Oracle database
- migration to SAP
- hp critical systems support (CSS)
- hp xp 256 storage environment
- mc serviceguard for high availability

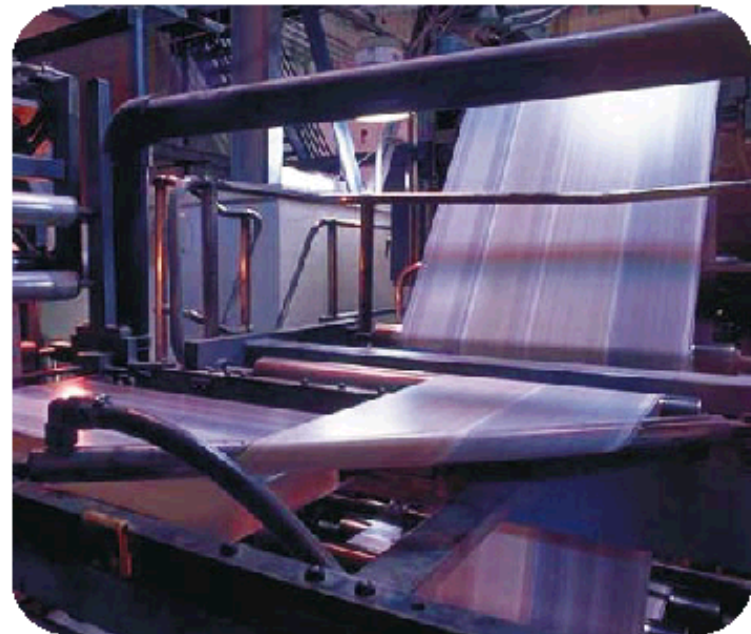




*Pacifica Papers Inc.*

# results

- better high availability
- superior support

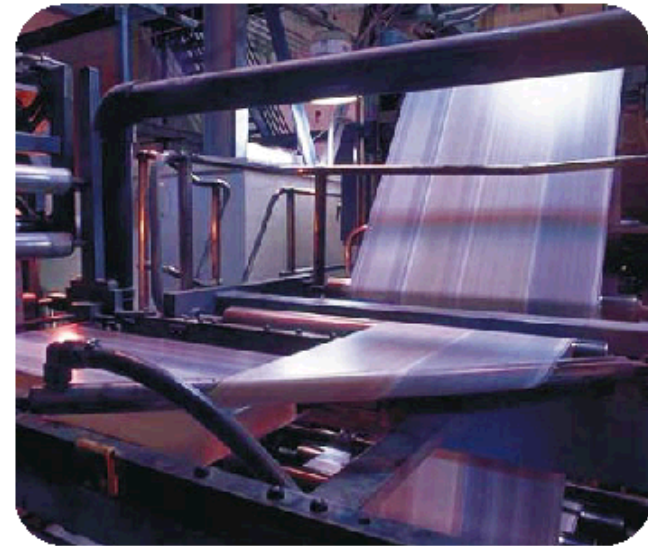




Pacifica Papers Inc.

# what Pacifica Papers is saying

“HP proves time and time again that its products and services are well above standard. In addition to its hardware, HP ensures the highest level of availability and exceptional support. From start to finish, HP was responsive and in tune with our needs making our migration to SAP smooth and expeditious.”



Tony Yee, Systems Superintendent,  
Homer Street Division, Pacifica  
Papers, Inc.



**i n v e n t**