hp
invent

rehosting hp e3000 apps

Alvina Nishimoto

migrating applications

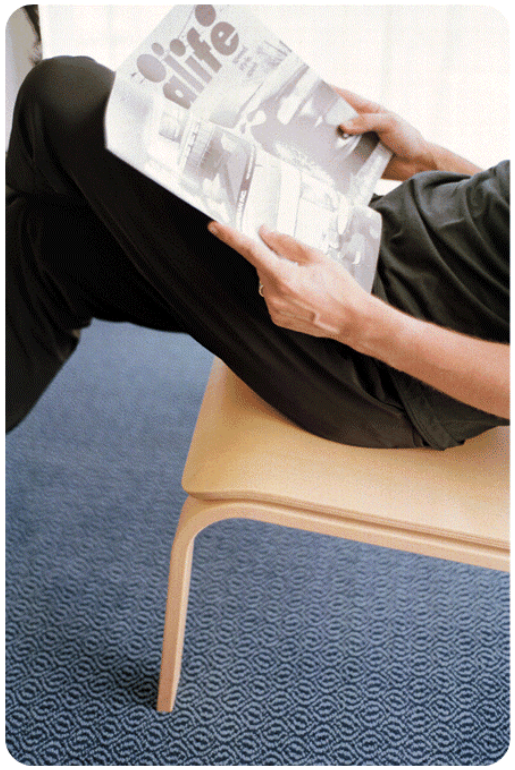
- what are the first things you should be asking yourself?
- choosing one of the five options
  - replace
  - rewrite
  - migrate
  - retire
  - leave on mpe

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

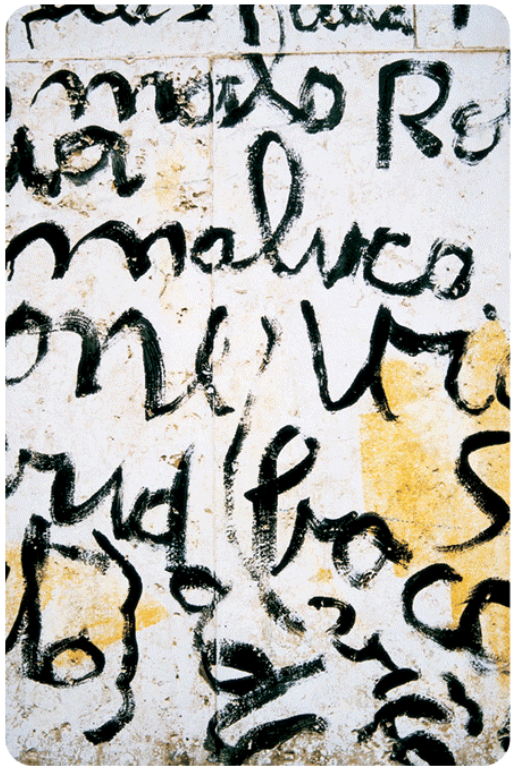
- pro's and cons to both approaches
- translating
- recompiling
- "you're not done when you finish recompiling

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

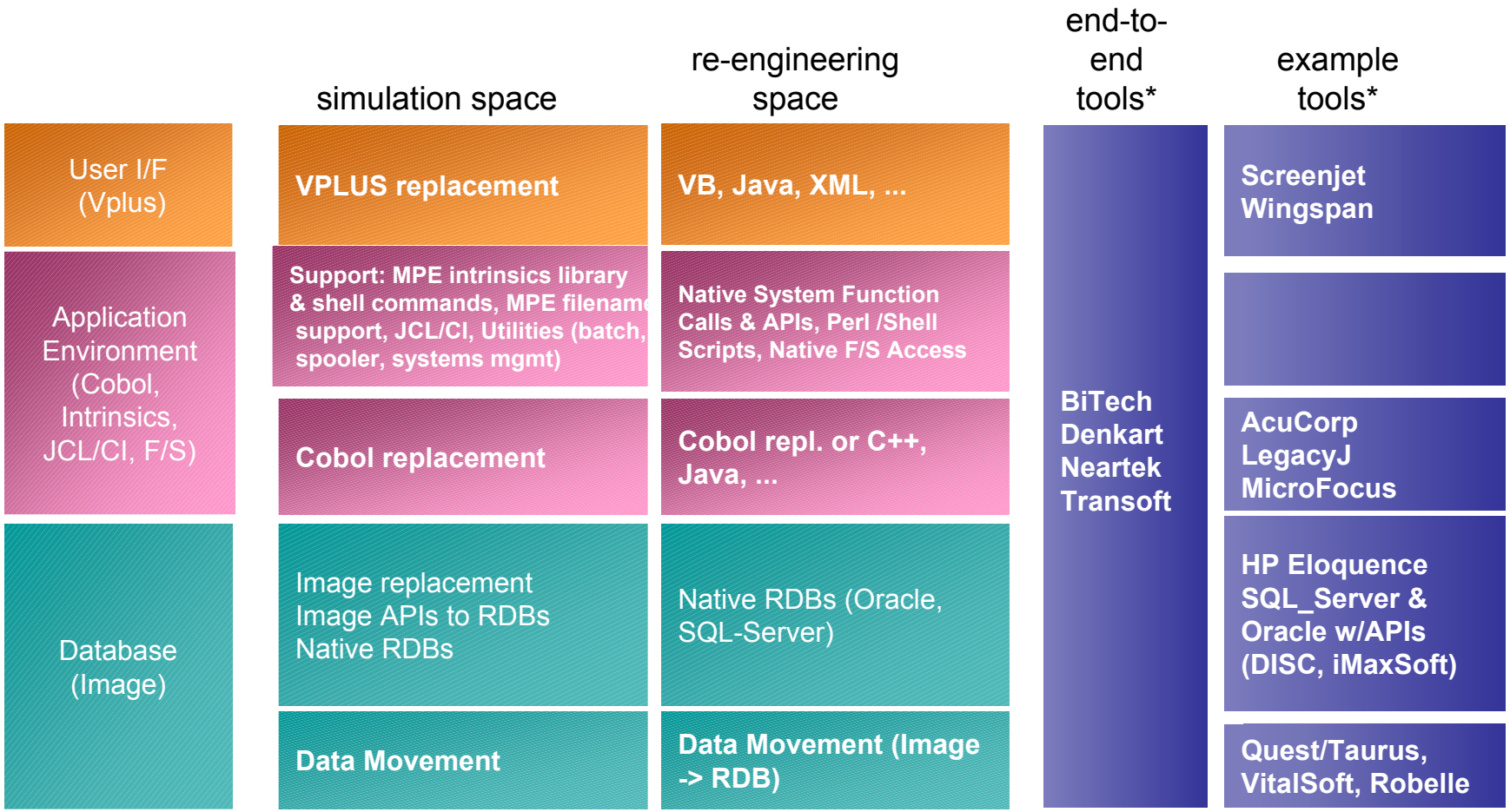
more problems

- 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



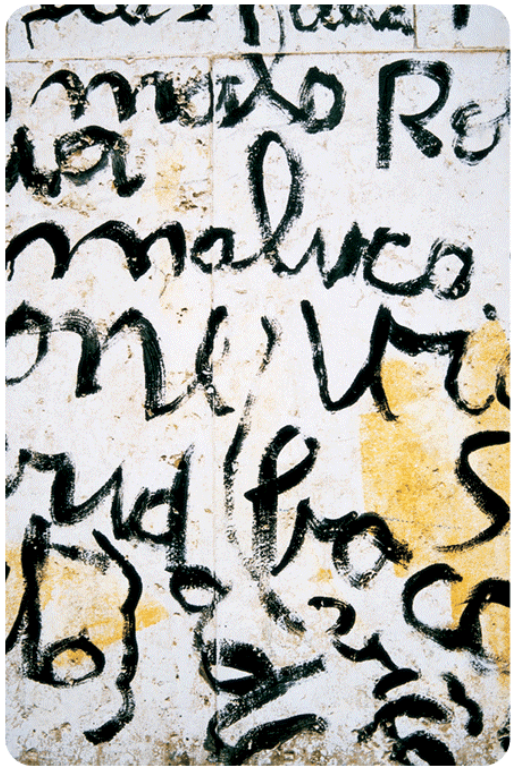
*See Tools Matrix for more info

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

AD technologies

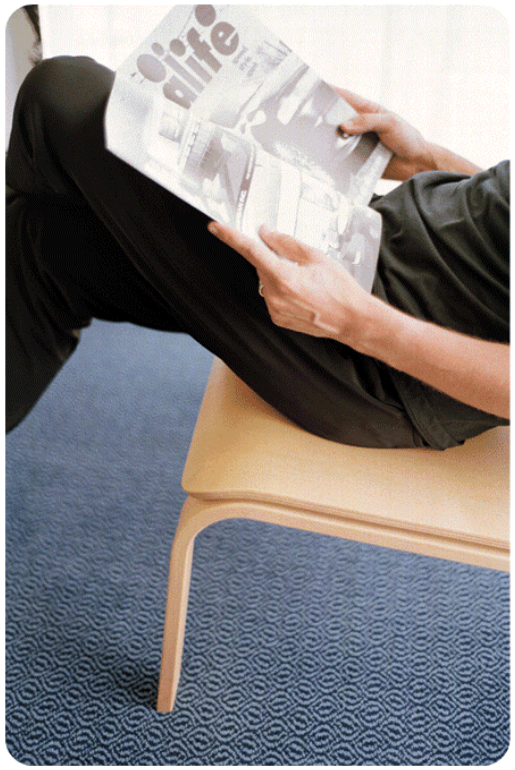
- Migration from cobol to cobol
- migration from spl to c
- migration from fortran to c
- migration from image to sql
- target platforms include hp-ux, unix, Linux, NT
- http://www.adtech.com

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

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

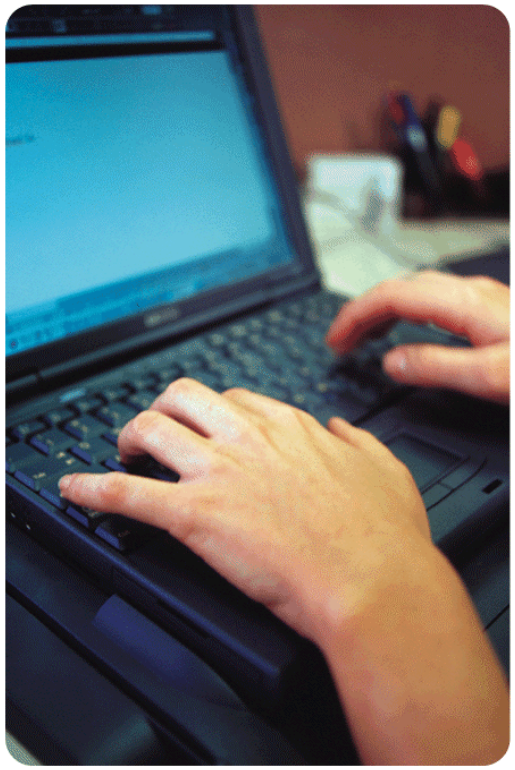
- putting sql statements in a program
- pre-processor expands the sql statements into procedural calls.
- example:
  - chained read:
    - read customer orders in a chain
    - applications selects the records you want from the chain

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

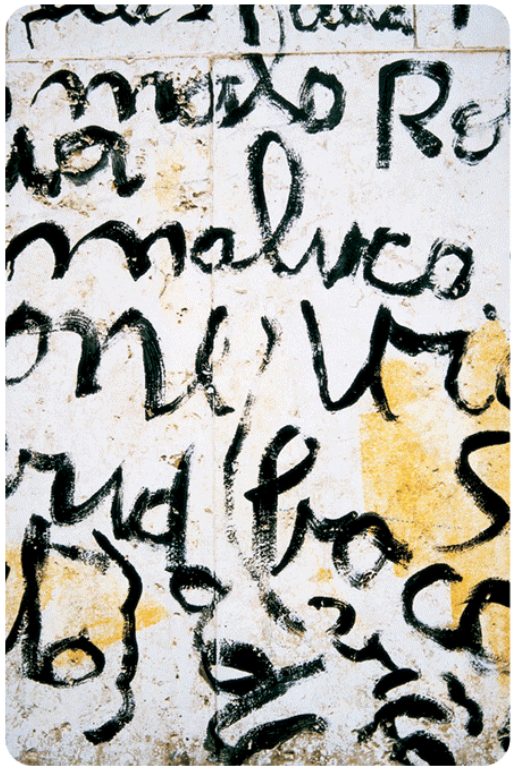


how serious can the performance problems get?

- 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

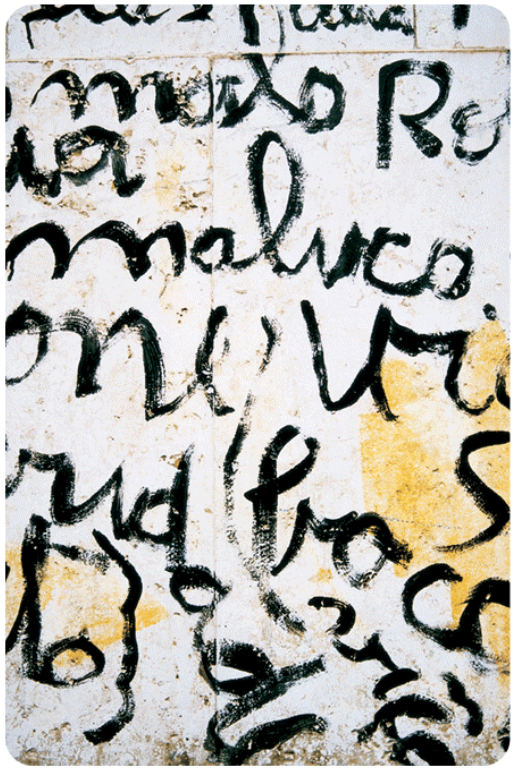
- no ‘array’ type in the rdbms
  - option 1: replicate the concept of an array use 1 big column to represent the array
  - option 2: one column per array element
  - option 3: create a table to represent the array

“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

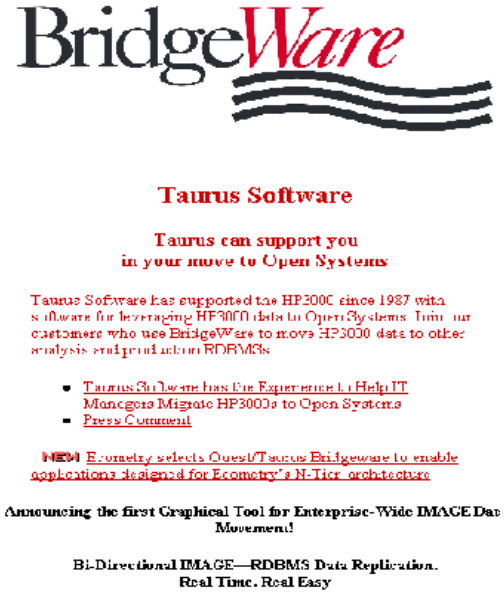
image - extraction/ transformation/ transport middleware

- 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
- www.quest.com



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

image - api access

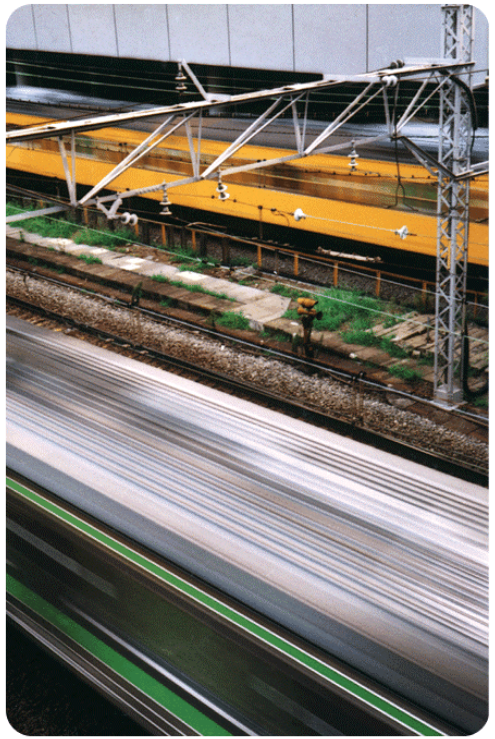
- Support of all Image Intrinsics including DBGET & DBFIND modes
- Converting between Image and Relational data types and names
- Image locking
- “SQL Pass thru”

IMAGE alternatives as you migrate

- 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.

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

vplus

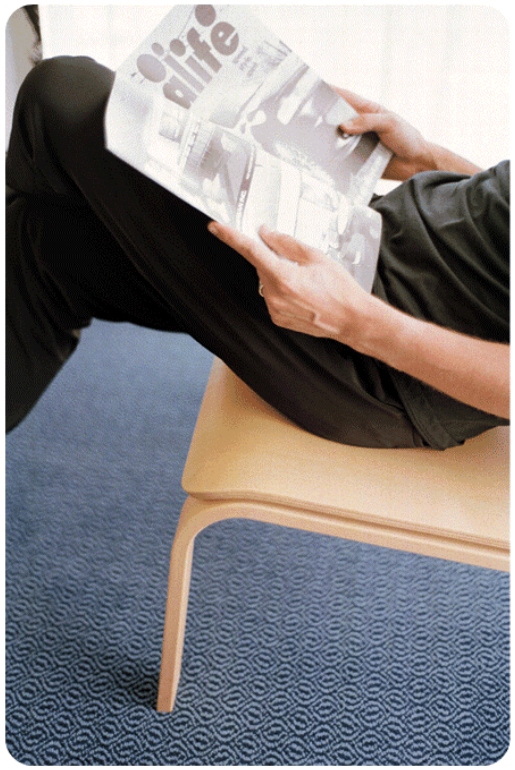
- Migrating the Screen
- Migrating the Processing Specs
- STDLIST
- Maintenance

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?

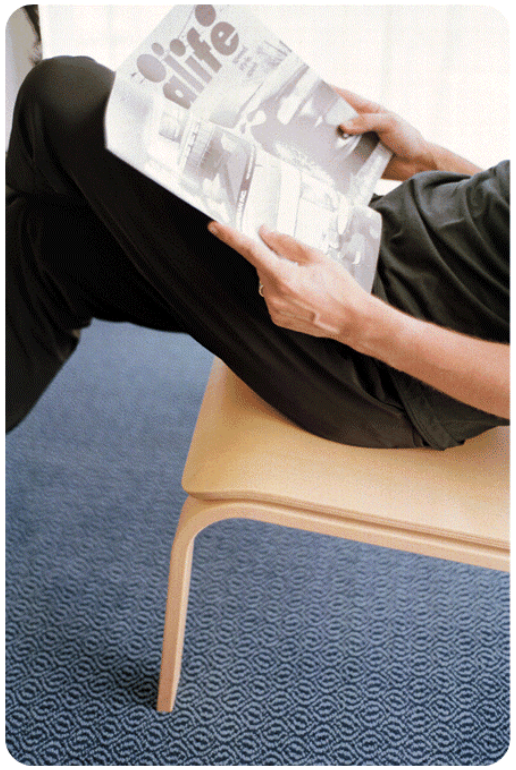
one application can have multiple UI's

- 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

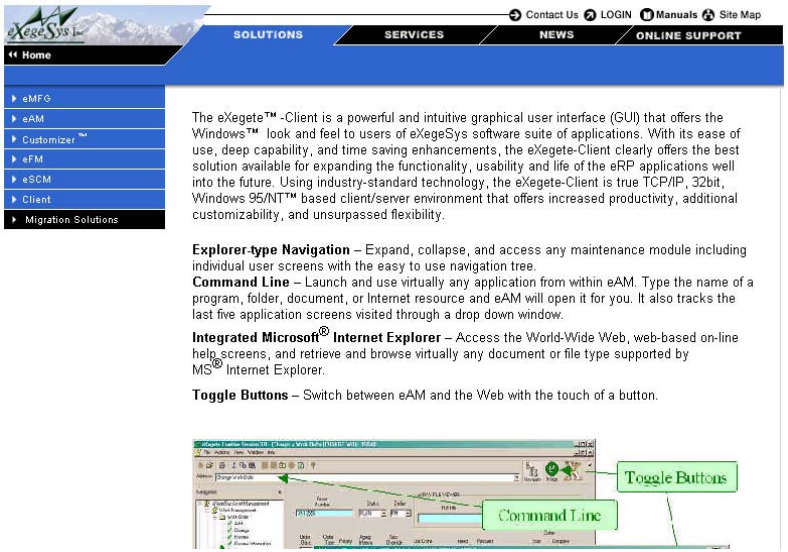


tools to move what you have

- 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

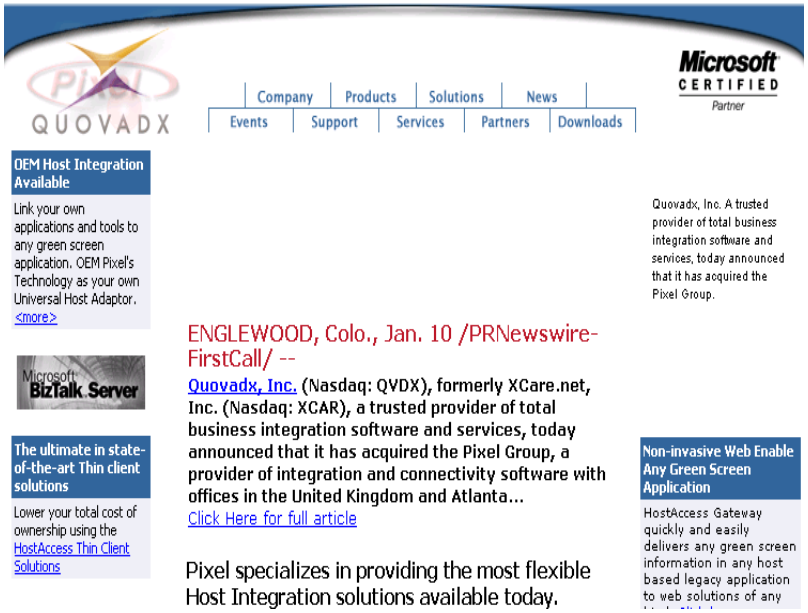


GUI Innovations, Limited

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

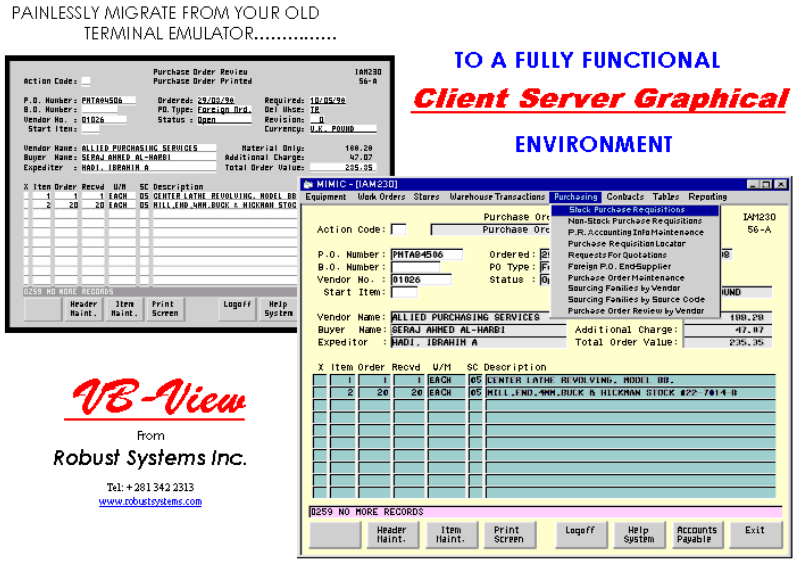
Pixel Group

- 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



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.

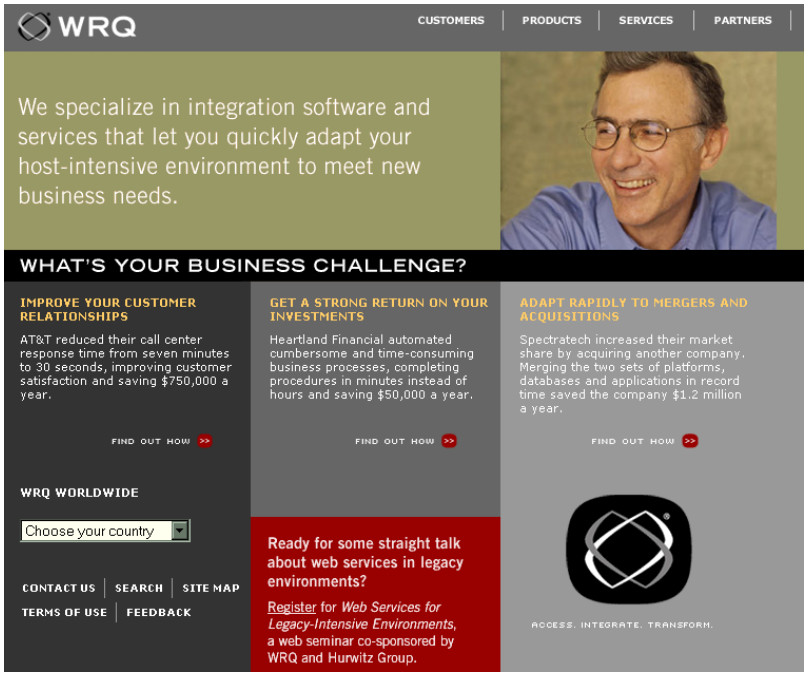


ScreenJet, Ltd

- 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

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



file system

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

intrinsics

- 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

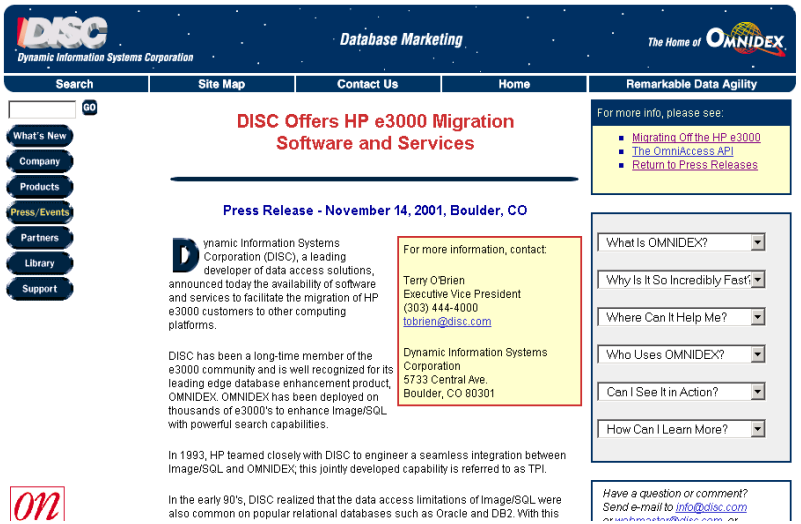
hp e3000 platinum tool

- 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

DISC

hp e300 platinum tool

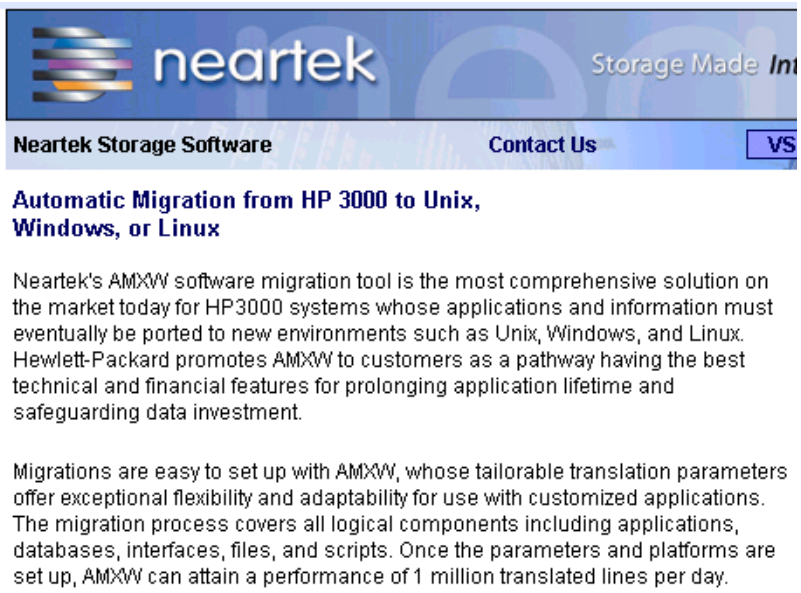
- OMNIDEX on desired database and hardware platform
- Network Services to facilitate data migration across platforms
- OmniAccess cross-platform database and operating system API
- MPE Library that converts key TurboImage, MPE File System, and MPE Operating System calls to the OmniAccess cross-platform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



neartek

hp e3000 platinum tool

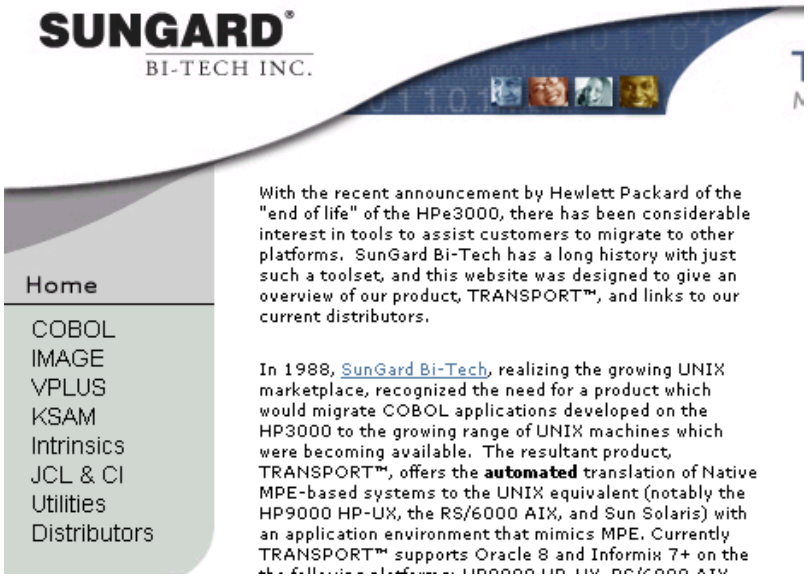
- neartek's AMXW software migration tool
- moves data from image, ksam and flat files to other platforms
- runs hp e3000 jcl
- most hp e3000 intrinsics covered through a shared library
- hp cobol to microfocus cobol
- target platforms include unix, windows, and linux.
- http://www.neartek.com/virtualstoragesoftware/amxw.htm



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



Transoft

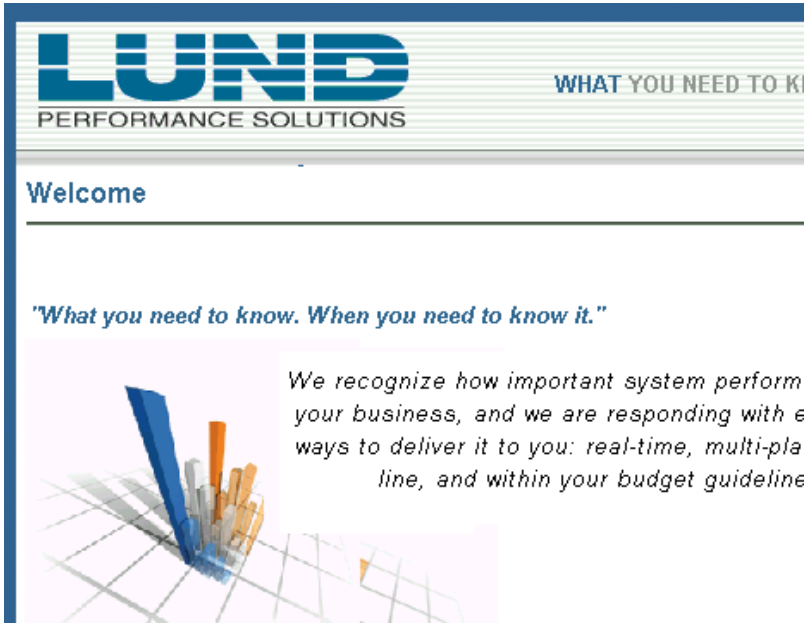
hp e3000 platinum tool

- 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 Intrinsics
- www.transoft.com

Lund

hp e3000 platinum partner

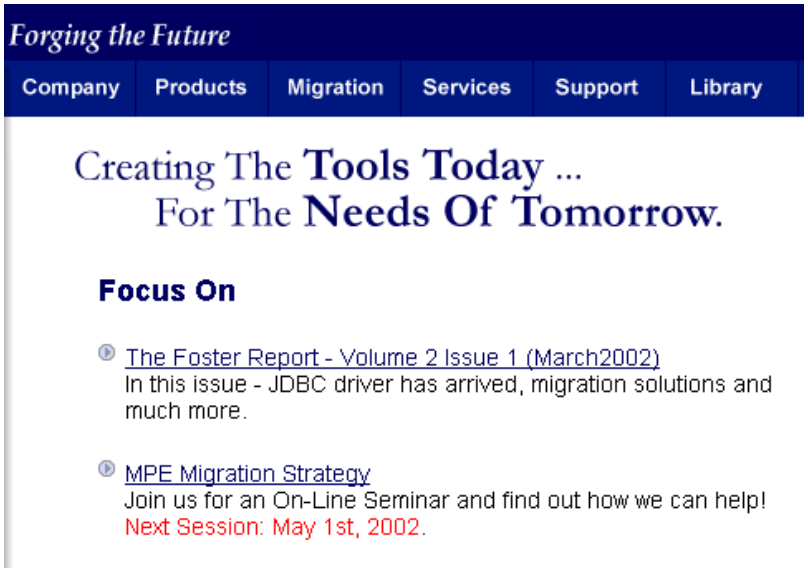
- full service migration partner
- access to all migration tools and services
- detailed assessment of your current system
- help you choose the best new platform
- detailed transition plan



MB Foster

hp e3000 platinum partner

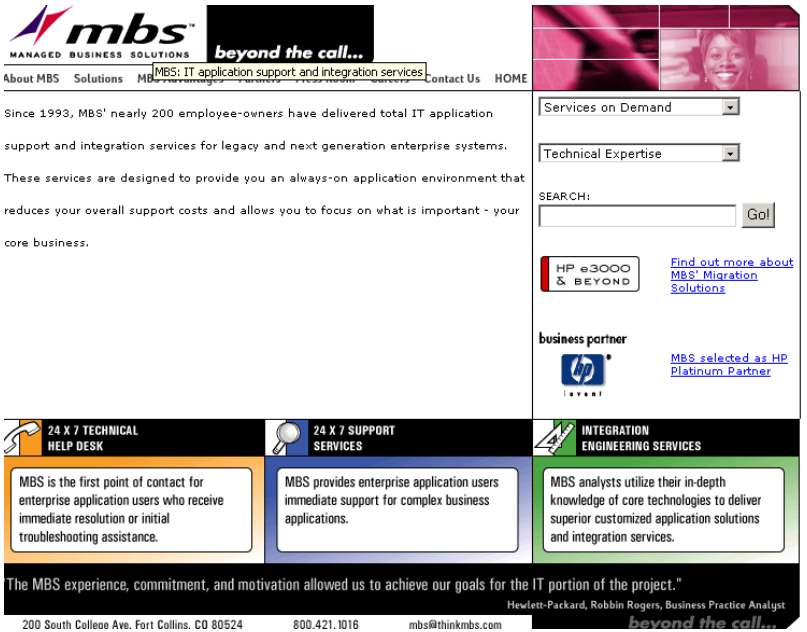
- full service migration partner
- access to all migration tools and services
- mbf-udalink for data access and delivery including batch reporting



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.



Speedware

hp e3000 platinum partner

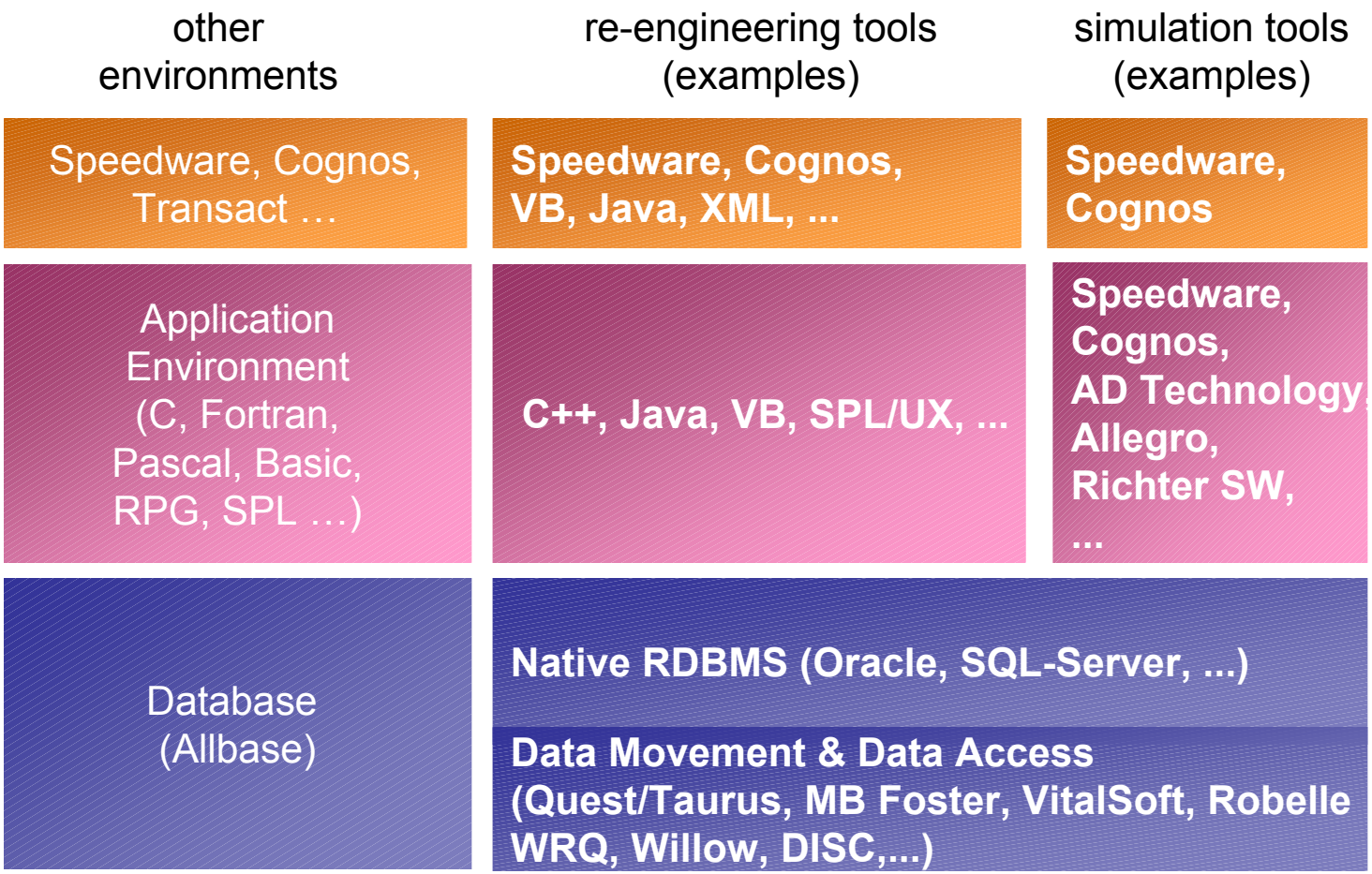
- full service migration partner
- access to all migration tools and services
- complete migration solution package for Transact

Speedware for Transact - A Complete Migration Solution

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

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

…and tools to cover other areas



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

HP e3000 Transition Tools Partner Matrix
March 2002

Partner	Coverages	Distribution Model
AcuCorp	Languages, DB Access, Intrinsics, 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, Intrinsics, 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, Intrinsics, 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, Intrinsics, 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
3K to 9K Conversion	• Zero cost OS and HW conversion from 3000 to 9000	• Offered on A and N-class HP e3000 • Available until December 31, 2006
Trade-In Discounts	• Low cost OS and HW alternative to move from older 3000s to current 9000s	• Up to $90,000 in rebates being offered depending on size of system
Loaner Systems	• Provide free loaners for customers who have only one or two 3000s	• Free six month loaner systems (9000, Wintel, Linux) for migration purposes • 40% discount for 9000s or leasing option after six months • IA loaner process being defined
Mission Critical & Enterprise OS	• Aggressive discounts for this OS	• 50% discount announced
Database Strategy	• Provide database alternatives for large and small/medium-sized customers	• Filling in value chain for HP Eloquence (low cost alternative) • Oracle for large customer, no blanket discount available
NetServers	• Discounted pricing to encourage move to IA-32 and IA-64	• Trade-in HP e3000 servers and receive 15% discount off the HP IA-32
Storage Systems	• Rebates for upgrading storage or converting from competition	• Ongoing program, non-specific to e3000

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
3 for 3 Promotion & Transition Support Services	• Lower cost of support on target HP platform • Assist PSS & CSS customers with migration focused activities	▪ 9000 or 3000 used for migration
3.89% APR for 36 Months	• Provide attractive finance options	• 3 month payment deferral also available
System Inventory Utility	• Tool to determine types of files on 3000 systems	• Available free to download /jazz.external.hp.com/src/scripts/siu/index.html
Public Access 9000	• Quick and inexpensive access to HP 9000 system	• Available free to any customer • Migration tools providers making tools available on this system

services programs for customers

Component	Objectives	Update
HP-UX, Linux, Windows Training	• Basic fundamental training • Provide HP-UX, Linux, Windows fundamentals	• Working on transition guide, white papers, and webcasts • Cross-reference tools •Discounts on in-depth training
Migration Webcasts	• Convenient concept migration training	• Four webcasts done; 2 more planned • Available for playback on the web
Platinum Program	• Lower cost access to migration tools • Fill in value chain of migration tools • Offered by partners well known to the HP e3000 community	• 4 partners signed up – Speedware, MB Foster, Lund, MBS; 6 tools announced • Program announced to customers
HP Consulting	• Provide discounted services for corporate and enterprise customers	
HP Outsourcing	• Provide outsourcing options for HP 3000 systems	• Reseller partners also providing lower cost alternatives (Logical, Dimension Data)

partner programs

Component	Objectives	Status
ISV and Tools Partners Contacted	• All HP e3000 partners contacted and briefed on migration and partnering options	• All partners contacted by DSPP alliance managers • Account teams for top partners
Partner Event	• Provide update on all platform roadmaps and networking event to meet HP technical personnel for other platforms	• Free partner forum scheduled for June
HP-UX, Linux, Windows Fundamentals Training	•Provide training on mapping MPE commands and tasks to HP-UX, Linux, Windows	•Webinar training available Aug 1
In-Depth Training	• Provide HP-UX in depth training at no cost or very discounted based on space available on existing classes	• No cost seats offered to SIGSOFTVEN, SIGCONSULT, and DSPP members
Refurbished 3000s	•Provide low cost alternatives for used 3000s	•25% discount on Phoenix systems for DSPP members
Coupon Book Promotion	• Provide way for partners to promote their migrations tools and services	• Finishing content, mailing in July

Harvard Pilgrim HealthCare
Making great health care a little easier.SM

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

CERIDIAN

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

CERIDIAN

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

CERIDIAN

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

CERIDIAN

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

CERIDIAN

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

CERIDIAN

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

CERIDIAN

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

CERIDIAN

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

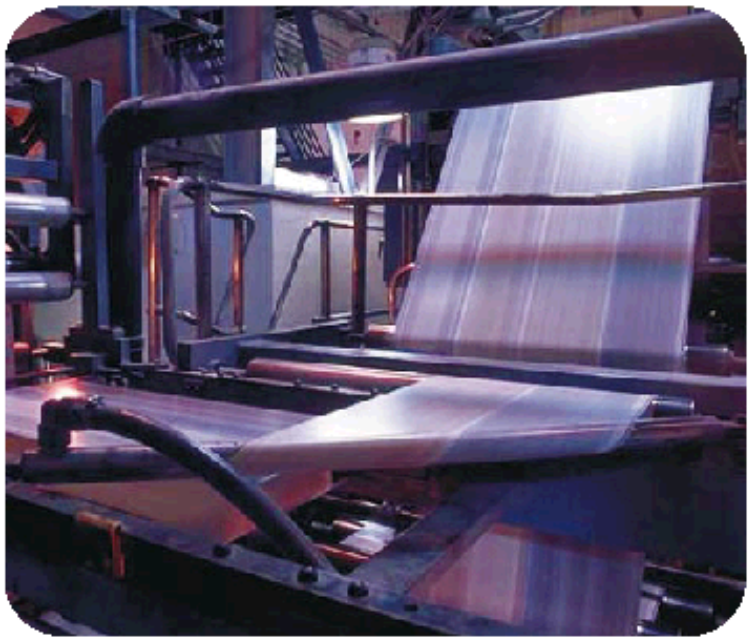
"HP customers should definitely consider an an HP-UX server as an alternative to the HP 3000 if reliability and consistency are what they're looking for."

Steve Hall
President, CT3, Inc.

Pacifica Papers Inc.

Pacifica Papers, Inc.

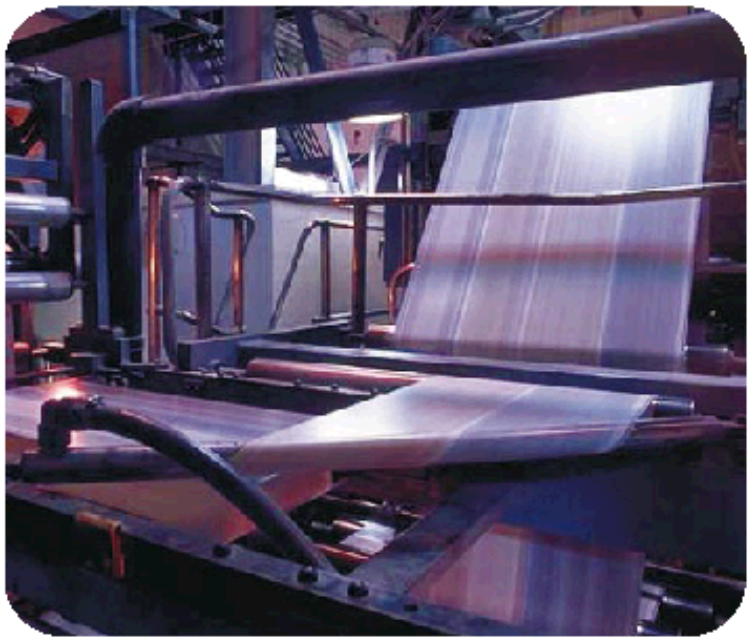
- hp cultivates an IT environment for Pacifica Papers



Pacifica Papers Inc.

challenges

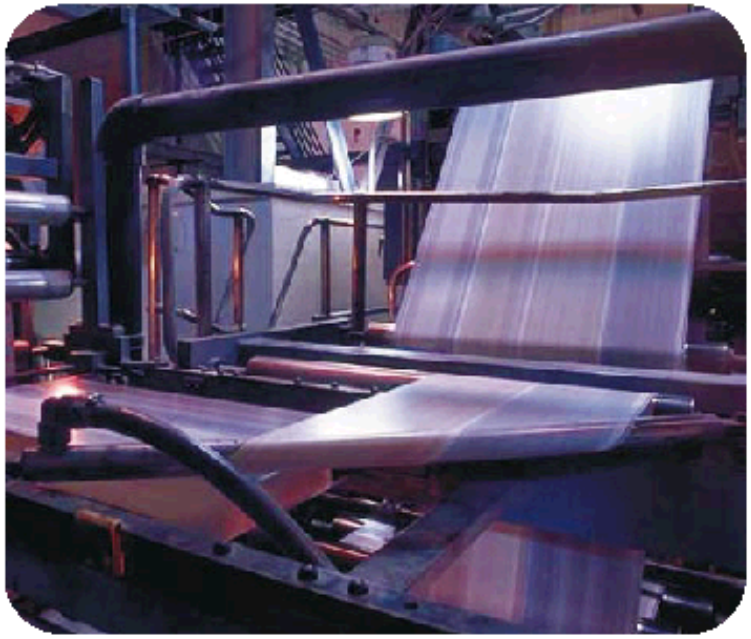
- paper manufacturer for printing and communication papers
- build a scalable solution tailored to specific needs
- increase database capabilities
- needed complete picture of the entire enterprise



Pacifica Papers Inc.

solution

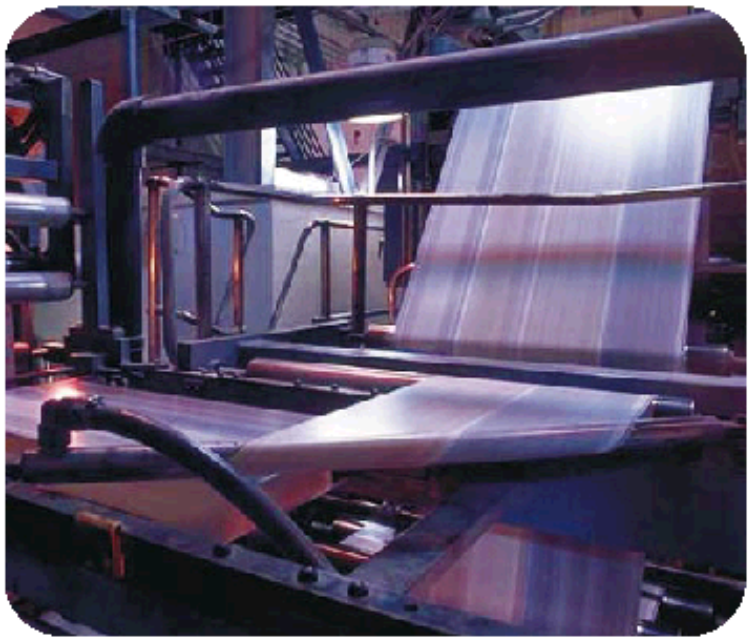
- hp services' consulting
- conversion from the hp e3000 to hp 9000 servers for application, database, and development servers
- Oracle database
- migration to SAP
- hp critical systems support (CSS)
- hp xp 256 storage environment
- mc serviceguard for high availability



Pacifica Papers Inc.

results

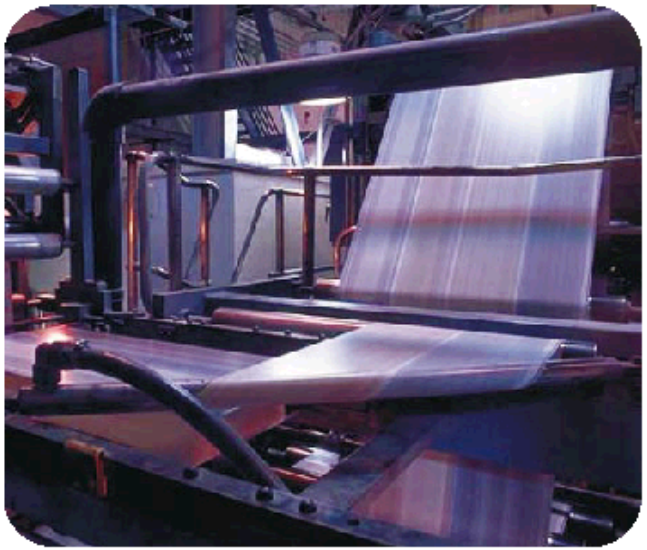
- better high availability
- superior support



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.

hp
invent