comForte-ably  Modernizing Legacy Proven NonStop Applications

‘Tandem’ Application Evolution & Modernization
- From the Ground-Up and from the User-In

Harry Scott
Carr Scott Software Inc.

www.comForte.com
DISCLAIMER:

1) Technical advice from a sales guy – buyer beware!
   Please invite us to discuss your specific situations.

2) HP’s plans/directions shared are my perspective.
   *Invite HP to present the "official story" to your team*

4) I love Tandem Computers!

Translation:

*All information is biased – now you know mine!*
“Should we keep our current applications and modernize what we can, or move the functionality to another platform?”

“A stable platform with proven and tested processes is extremely appealing!”

“If it isn’t broken, why fix it?”

“Our users don’t like change!” – even though the market and business demands it
Modernize or replace legacy proven apps… Should we stay or should we go?

You should modernize if you can answer YES to:

1. Is the app/system still serving the business?
2. Are the necessary skills (people) available?
3. Are the vendors still providing support?
Only three ways to update an application…

<table>
<thead>
<tr>
<th></th>
<th>CASE 1: NEW DEVELOPMENT</th>
<th>CASE 2: PACKAGE</th>
<th>CASE 3: MODERNIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Involvement</td>
<td>Hard</td>
<td>Hard</td>
<td>N/A</td>
</tr>
<tr>
<td>Executive Support</td>
<td>Hard</td>
<td>Hard</td>
<td>N/A</td>
</tr>
<tr>
<td>Clear Business Objectives</td>
<td>Hard</td>
<td>Hard</td>
<td>Easy</td>
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<tr>
<td>Optimization</td>
<td>Hard</td>
<td>Hard</td>
<td>Easy</td>
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<tr>
<td>Emotional Maturity</td>
<td>Hard</td>
<td>Hard</td>
<td>N/A</td>
</tr>
<tr>
<td>Size</td>
<td>Large</td>
<td>Medium</td>
<td>Small</td>
</tr>
<tr>
<td>Complexity</td>
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<td>Simple</td>
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<tr>
<td>Time</td>
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<tr>
<td>PM Mechanics</td>
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<td>Loose</td>
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<tr>
<td>Decisions</td>
<td>15,000</td>
<td>7,500</td>
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There is a HUGE difference between a ‘Tandem’ and a HP NonStop

Tandem’ applications can be inflexible and costly but….

…HP NonStop systems are Open and cost effective!
Revolutionizing the always-on, globally-connected world

Industry’s first flexible approach to a 100% fault-tolerant infrastructure

100% HP NonStop

Continued innovations

Transformational advancements

HP Integrity NonStop refresh

HP NonStop on x86 architecture

100% application availability

27 years continuously running

25% cost savings

100% availability continuously running 27 years

25% cost savings
## A modern application environment, with NonStop fundamentals

<table>
<thead>
<tr>
<th>Develop Application programming models</th>
<th>ECLIPSE</th>
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<tbody>
<tr>
<td></td>
<td>Open Source Java Frameworks</td>
</tr>
<tr>
<td></td>
<td>Apache Tomcat</td>
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<tr>
<td></td>
<td>Certified Java SE Platform (JDK and JRE)</td>
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<td></td>
<td>SOA Infrastructure (SOAP, XML, HTTP, WSDL)</td>
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<table>
<thead>
<tr>
<th>Deploy Application infrastructure</th>
<th>NonStop TS/MP</th>
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<tbody>
<tr>
<td></td>
<td>NonStop OS</td>
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<tr>
<th>Differentiate</th>
<th>Network access</th>
<th>SOA infrastructure</th>
<th>Open source Java frameworks</th>
<th>Business logic</th>
<th>Database</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparent Scalability</td>
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<td>✓</td>
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<tr>
<td>Transparent Fault Tolerance</td>
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HP NonStop: Now with Industry Standard Software Development

Featuring Microsoft Visual Studio.net Technology

eclipse

MyFaces

 AXIS 2

spring source

hibernate
NonStop applications designed 20 or 30 years ago already followed modern Paradigms
Modern application design follows very similar approaches
1. Improving the user experience

2. Infrastructure for growth and connectivity

3. A solid foundation that supports the products and skillsets you'll need now and into the future
Modern User Interfaces

A **User Experience** Every User Can Love!

- **Green Screens**
- **Rapid GUI modernization** (no coding required)
- **All New User Experience**
Seamless access to/from NonStop application services

comForte’s CSL modernizes the application ‘plumbing’
Both the Services and App-infrastructure layers are now flexible and Open
Is your database limiting or enabling your applications?

Proprietary (Enscribe) databases - limiting

- Reduced productivity – thereby increasing costs
  - Require manual workarounds to compensate for database limitations
- Reduced competitiveness
  - Failing to provide adequate or timely business data from/to your enterprise wide systems

Open (SQL) databases - enabling

- Leverage readily available skills
- Support cross-platform development
- Native compatibility with 3rd party tools and enterprise data models

Pro Tip:
Your database determines the tools and skills necessary throughout the rest of the system.
SQL ‘standard’ database is critical for interoperability, cross-platform development and data access.
Transparent database conversion and interception

**Database Conversion**
- Converts files one at a time
- Offers numerous conversion / transformation capabilities:
  - Extensible datatypes
  - Custom transformations
  - Record mapping
  - Normalization
  - Array mapping
  - Key mapping

**Runtime Enscribe Emulation**
- Captures Enscribe calls and converts them to SQL statements
- Invisible to the application
Zero programming / rapid conversion of “Green Screen” to GUI.

SOAP enable Pathway servers for Web service access to ‘services’ on NonStop or other platforms

Transparely convert Enscribe files to SQL tables with little or no reprogramming

SQL tables accessible directly via JDBC and ODBC for leverage across enterprise

Migration to Open for both application (using SOA) and database (using NonStop SQL)
Modernization in the real world!

There's a storm a brewing

Went from Green Screen to GUI...

...and proprietary Enscribe to SQL

Went from Tandem elimination...

...to HP NonStop being strategic!

Built over a weekend!
The “perfect storm” for modernizing NonStop Apps

- HP is 100% committed to the NonStop server platform
  - HP NonStop X
    - The world's most reliable / scalable x86 server – second to none!
    - Perfect platform to host Java/JSON apps w/massive scale and dial-tone reliability
    - Object-code/plug compatible replacement for 'Tandem' systems

- comForte world-wide support for key modernization technologies
  - From the ground-up – database modernization – Escort SQL
  - Messaging / integration – CSL
  - From the user-in – green-screen to GUI – JPath & CSL
There is no reason to wait – Modernize today with comForte!
HP NonStop application modernization from the Ground-up and the User-in

comForte - bringing new life to NonStop apps

Thank you!

Questions?

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