What’s the fastest path to...

Web Browser

Linux

The Cloud

Desktop Clients

Mobile Devices
Modern solutions with Informix Genero

- The offering is driven through an OEM agreement with Four J’s
- Leverages the Four J’s Genero product family:
  - Informix Genero Business Development Language with Web Services
  - Informix Genero Application Server (DVM)
  - Informix Genero Desktop Client
  - Informix Genero Report Writer
  - Informix Genero Studio
- Priced and packaged through Passport Advantage and supported by IBM
- Strong partnership in future development with Four Js
Value Proposition

- Saves time on needless re-development
- Protects tens of man-years of investment in domain skills
- Able to quickly adapt applications to changing market demands
- Meets user expectations with a modern GUI
- Runs applications across the desktop, web, mobile or cloud
- Improves developer productivity
What is it?

- Informix Genero really is an updated Informix 4GL
  - Superset of Informix 4GL
  - Highly compatible
  - Recompile and run “Out of the Box”
  - Little to no modifications to business logic

- Virtual machine architecture
  - Technology independent code
  - We focus on the infrastructure
  - You focus on the business logic
Informix Genero language extensions

- GUI Paradigm
  - Multiple Dialogs
  - Drag ‘n’ Drop
  - Tree Views
  - Rich Text
  - Multiple Selects
  - Picture Flow
  - Etc.

- Web Services
- Java Interface
Converting 4GL to Informix Genero
Assuming Windows or Linux installation

Straight-forward and simple...

1. Compile and link 4GL source files with *fglcomp OR easily adapt makefiles to use Genero compilers and tools
   
   `fgl2p -o prog1.42r p4_main.4gl d4_cust.4gl d4_orders.4gl d4_reports.rgl`

2. Compile .per (form) files with *fglform
   
   `for f in *.pe; do fglform $f; done`

3. Start the Desktop Client to run the program in graphical display
   
   `$ gdc &`

4. Run your program
   
   `$ fglrun prog1`

5. Deploy anywhere!

   *Uses proportional fonts and creates an individual desktop window for each 4GL window*
### Informix 4GL – Today

**Header is output by a sub program**

**Master-Detail Data Area**

**Function Key Menu**

---

**Informix 4GL**

**MODIFY: enter data**

**VIEW details of the current record**

**** CORPORATE SOLUTIONS ** - INVOICE ENTRY - **

- **Company**: CS
- **Transaction Number**: 080521
- **Date**: 01 Jul 2001
- **Control Total**: 11,519.50
- **Currency**: AUD
- **Rate**: 1.0000
- **Difference**: 0.00

**INVOICE ENTRIES**

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**INVOICE DETAILS**

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</tbody>
</table>

**OPTIONS: use arrow keys, OR**

- **F1=VIEW DETAIL**
- **F4=QUIT**
- **F5=FWD**
- **F6-PREV**
- **F10=HELP**
Informix Genero – In Days or Weeks

- Menu drop-downs & assorted widgets
- No Header or “Title” in main screen
- Master/Detail with Tabbed Table
Informix Genero – Incremental Modifications

- Leverage Microsoft Silverlight and Web Components
Converting 4GL to Genero in Weeks

Case Study

• Perform 1:1 Conversion (4GL → Genero)
• Very short duration – 3 weeks to convert!
• Conversion 100% executed by Adaptris
• Enhancements and future development performed by the customer

• Key Metrics
  • 354 programs
  • 3,023 4GL modules
  • 625 screens (4GL forms)
  • 1,174,100 lines of 4GL source code
Informix Genero Offering

- No License Manager
- Developer Suite – authorized user single install (AUSI)
- Runtime Suite – AUSI, FUSSSI, PVU, Limited Use Socket for Growth Edition
## Informix Genero - Platform support

<table>
<thead>
<tr>
<th>Platforms</th>
<th>Processor</th>
<th>Pkg.</th>
<th>Developer</th>
<th>Runtime</th>
<th>Desktop Client</th>
<th>Studio</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Apple</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Mac OS X 10.5, 10.6</td>
<td>X86_64</td>
<td>32bit, 64bit</td>
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<tr>
<td><strong>Hewlett-Packard</strong></td>
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<tr>
<td>HP-UX 11.11</td>
<td>PA-RISC 64</td>
<td>64bit</td>
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<tr>
<td>HP-UX 11.23, 11.31 64-bit titanium 2</td>
<td>Ia64</td>
<td>64bit</td>
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<tr>
<td><strong>IBM</strong></td>
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<tr>
<td>AIX 5.3 – 6.1 64bit</td>
<td>PowerPC</td>
<td>64bit</td>
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<tr>
<td><strong>Linux</strong></td>
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<tr>
<td>Red Hat 4,5 &amp; SuSe 10,11 &amp; Debian (4.0,5.0)</td>
<td>X86_32</td>
<td>32bit, 64bit</td>
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<tr>
<td>Red Hat 4,5 &amp; SuSe 10,11 &amp; Debian (4.0,5.0)</td>
<td>X86_64</td>
<td>64bit</td>
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</tr>
<tr>
<td>Red Hat Enterprise 4</td>
<td>PowerPC</td>
<td>64bit</td>
<td></td>
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<tr>
<td><strong>Microsoft Windows (Visual C++ 9.0)</strong></td>
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</tr>
<tr>
<td>Windows XP, 2003,2008,Vista,Windows 7</td>
<td>X86_64</td>
<td>64bit</td>
<td></td>
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<tr>
<td><strong>Solaris</strong></td>
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<tr>
<td>Solaris 9,10</td>
<td>Sparc</td>
<td>64bit</td>
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</tr>
<tr>
<td>Solaris 10</td>
<td>X86_64</td>
<td>64bit</td>
<td></td>
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</tr>
</tbody>
</table>

1 Desktop Client: Developer and Runtime Suite licenses are entitled to download the Desktop Client from PA
2 Studio: Developer Suite licenses are entitled to download the Studio from PA
Education and Services

• Working to establish education and training course off of the ibm.com website
  – Web-based, onsite and facility based training
    • Informix Genero Language Basics
    • Informix Genero Interface programming
    • Informix Genero Web Client
    • Informix Genero Web Services
    • Informix Genero Report Writer

• Consulting/Services
  – Building a list of service providers
  – Plans to leverage Business Partners and ISVs interested in extending their services portfolio
<table>
<thead>
<tr>
<th>vNext* - 2011</th>
<th>vNext++* - 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Client and Server Enhancements</strong></td>
<td><strong>Informix Genero Platform V1</strong></td>
</tr>
<tr>
<td>– Application Server optimization</td>
<td>– Java and .Net framework</td>
</tr>
<tr>
<td>– Application Server GUI connection and performance monitoring</td>
<td>– Integration with Genero Studio (IDE)</td>
</tr>
<tr>
<td><strong>Genero Studio (IDE)</strong></td>
<td><strong>Web Services</strong></td>
</tr>
<tr>
<td>– iPhone and Silverlight theme support</td>
<td>– SOAP 1.2, WSDL 2.0, Ease of web service security</td>
</tr>
<tr>
<td>– Smart project import</td>
<td><strong>Desktop Client</strong></td>
</tr>
<tr>
<td>– Accessibility support for Windows</td>
<td>– Deployment and automatic updates</td>
</tr>
<tr>
<td>– Business Application enhancements (diagram/generator)</td>
<td><strong>Application Server</strong></td>
</tr>
<tr>
<td>– Database Diagram ergonomics (doc errors, column insert, etc.)</td>
<td>– Silverlight client update</td>
</tr>
<tr>
<td>– Report Data Designer</td>
<td>– Application deployment utility</td>
</tr>
<tr>
<td><strong>Report Writer</strong></td>
<td><strong>Web Client</strong></td>
</tr>
<tr>
<td>– Datamatrix bar codes</td>
<td>– HTML 5 themes (Android, Windows 7, BB and generic mobile)</td>
</tr>
<tr>
<td>– Hyperlink support</td>
<td><strong>Business Development Language</strong></td>
</tr>
<tr>
<td>– Excel 2007 (XLSX) and Word output</td>
<td>– Summary Lines</td>
</tr>
<tr>
<td><strong>IBM Enhancements</strong></td>
<td><strong>Report Writer</strong></td>
</tr>
<tr>
<td>– Netezza database driver support</td>
<td>– Additional Templates, hyperlinks, tables</td>
</tr>
<tr>
<td>– Certification with 4GL 7.50 constructs</td>
<td>– Quick run from previous data</td>
</tr>
<tr>
<td>– Trusted Context support</td>
<td>– Stand-alone for Java and C#</td>
</tr>
<tr>
<td>– Informix Connection Manager support</td>
<td>– API for Java and C#</td>
</tr>
<tr>
<td>– Support additional Informix data types</td>
<td>– User Guide published to Info Center</td>
</tr>
<tr>
<td>– User Guide published to Info Center</td>
<td>– Accessibility enhancements</td>
</tr>
<tr>
<td>– Accessibility enhancements</td>
<td><strong>Studio (IDE)</strong></td>
</tr>
</tbody>
</table>

The information on future products are intended to outline our general product direction and should not be relied on in making a purchasing decision. The information on the future product is for informational purposes only and may not be incorporated into any contract. The information is not a commitment, promise, or legal obligation to deliver any material, code or functionality. The development, release, and timing of any features or functionality described for our products remains at our sole discretion.
“Genero was far and away the clear choice to modernize our Informix 4GL-based portfolio of healthcare solutions, saving us tens of man-years worth of rewrites and disruption to the state health clinics we serve. What's more, with very little effort, I am now able to position those same applications in the Cloud, which gives me clear differentiation with respect to my competition and opens up a market more than twenty times the one I am serving today. The choice of Informix Genero and Informix has helped my business become a recognized leader in the Public, Mental, Rural, and Environmental Healthcare Solutions industry.”

Mark T. Bennett, Executive Vice-president, Mitchell & McCormick, Inc.

“Byram Healthcare, with the assistance of Strategy 7, evaluated several options and development platforms to ensure our application would provide top performance for our expanding user base. We concluded that the combination of Genero, Informix 11.7, and IBM Power 7 exceeded our expectations on performance and provided a low cost platform to quickly deploy applications that fit our service-oriented architecture.”

Alan Jackson, CIO, Byram Healthcare
Demonstration
Questions ?!?
Genero related topics at IIUG

• Technology Roundtable Luncheon
  – **Today** during the Lunch Break @ tables 3 and 4

• C06 – 4GL reporting taken to the Genero Level
  – **Today** at 5PM in Quail Creek II

• A11 – Transforming Informix 4GL development with Genero Studio
  – **Tues (17 May) 2:10PM** in Salons G&H

• C16 – Adding a GUI to your 4GL: with Informix Genero it is not that hard!
  – **Wed (17 May) 5PM** in Quail Creek II
Informix Genero in Action

IBM Speakers

smoe@us.ibm.com
sherrit@us.ibm.com
douglasd@us.ibm.com