User Interface Migration

Speaker name
Title
Hewlett-Packard
Agenda

• Understanding VPLUS
• VPLUS replacement options recommended by platinum partners
• Other replacement solutions
• Q&A
Understanding VPLUS

VPLUS forms

- VPLUS does not exist on other platforms
- Forms must be converted to another format compatible with the new compiler
- Intrinsics must be converted, removed, or “wrapped”
VPLUS overview

HP e3000

COBOL

VPLUS calls with formsfile

Data passed between desktop and server just ONCE PER SCREEN

Block-mode desktop device
VPLUS form example
Understanding VPLUS intrinsics

- VCHANGEFIELD
- VCLOSEBATCH
- VCLOSEFORMF
- VCLOSETERM
- VERRMSG
- VFIELDEDITS
- VFINISHFORM
- VGETBUFFER
- VGETFIELD
- VGETFIELDINFO
- VGETFILEINFO
- VGETFORMINFO
- VGETKEYLABELS
- VGETLANG
- VGETNEXTFORM
- VGETTYPE
- VINITFORM
- VLOADFORMS
- VOPENBATCH
- VOPENFORMF
- VOPENTERM
- VPLACECURSOR
- VPOSTBATCH
- VPRINTFORM
- VPRINTSCREEN
- VPUTBUFFER
- VPUTFIELD
- VPUTTYPE
- VPUTWINDOW
- VREADBATCH
- VREADFIELDS
- VSETERROR
- VSETKEYLABEL
- VSETKEYLABELS
- VSETLANG
- VSHOWFORM
- VUNLOADFORM
## VPLUS compilation errors with new compiler

<table>
<thead>
<tr>
<th>VPLUS Intrinsic Calls</th>
<th>Errors or Warnings Encountered with MF</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALL &quot;VOPENTERM&quot; USING COMAREA FILENAME.</td>
<td>173 called program file not found in drive or directory - VOPENTERM</td>
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<tr>
<td>CALL &quot;VOPENFORMF&quot; USING COMAREA filename.</td>
<td>173 called program not found in drive or directory - VOPENFORMF</td>
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<tr>
<td>CALL &quot;VGETBUFFER&quot; USING COMAREA BUFFER-FRM1</td>
<td>173 called program not found in drive or directory - VGETBUFFER</td>
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<tr>
<td>CALL &quot;VERRMSG&quot; USING COMAREA MSGBUF MSGBUFSIZE ERRMSGLEN</td>
<td>173 called program not found in drive or directory - VERRMSG</td>
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<tr>
<td>CALL &quot;VPUTWINDOW&quot; USING COMAREA MSGBUF MSGBUFSIZE</td>
<td>173 called program not found in drive or directory - VPUTWINDOW</td>
</tr>
<tr>
<td>CALL &quot;VGETNEXTFORM&quot; USING COMAREA.</td>
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<tr>
<td>CALL &quot;VCHANGEFIELD&quot; USING COMAREA WS-VPLUS-FIELD-SPECS WS-VPLUS-NUM-ENTRIES</td>
<td>173 called program not found in drive or directory - VCHANGEFIELD</td>
</tr>
<tr>
<td>CALL &quot;VFINISHFORM&quot; USING COMAREA</td>
<td>173 called program not found in drive or directory - VFINISHFORM</td>
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VPLUS replacement options

HP-UX, Windows, Linux

COBOL
VPLUS calls with formsfile

VPLUS converter
Char-based/Web/VB

Terminal, PC or browser
VPLUS GUI enhancements

HP-UX, Windows, Linux

COBOL

New interface Web/GUI

Java, VB, etc.
VPLUS replacement solutions

- Proven solutions known to include an automated migration tool
  - edWin/3k from Ordina-Denkart
  - LookVP from Cheops
  - ScreenJet from ScreenJet

- All solutions offer VPLUS intrinsics mapping library
  - Reduces the migration effort
  - Intrinsics calls need not be modified

- VPLUS is probably the easiest of all the 3GL application migration challenges
edWin/3K

- Vendor: Ordina-Denkart (Belgium)
- Resellers: HP Platinum partners
- Quickly converts VFORM files to XML on Unix/Windows
- Supports character-based interface and GUI (Java) on Unix and Windows
- Includes VPLUS intrinsics library
  - Reduces the migration effort
  - Intrinsics calls need not be modified
- Includes GUI designer to enhance the forms
- Pricing: Based on number of developers and end-users per target server.
Migrate VPLUS in 3 simple steps

Migrates quickly and completely

1. Transfer
2. Convert
3. Install

Old Machine

VPLUS Forms

Open System

edWin
After migration: You got edWin!

edWin Painter maintains your Open XML Forms.

Same program interface, many more features!

Instantly connect to Web browsers, Java clients, even Green Screens!

Open System
edWin™ benefits

edWin offers these immediate benefits:

- edWin supports all of VPLUS
- There’s no need to change anything
- Screen I/O is automatically open and platform independent
edWin/3K™ Example A—Easy client distribution

Actually, there’s not much installation needed

• Web/Java interfaces are downloadable
• Browser-model irrelevant
• Wide range of supported client platforms
edWin/3K™ Example A—Easy client distribution (cont.)

Connect to edWin/3K application server…

Automatic installation

…and you’re ready to go!
edWin/3K™ Example B—Compatibility and new features

edWin has fundamentally different architecture
- Client-server model for advanced networking
- Graphical and browser-based clients
- Nevertheless **full** forms and line-mode support
- Menu offers access to applications and even CI screens
edWin/3K™ Example B—Compatibility and new features (cont.)
ScreenJet

- Vendor: ScreenJet (United Kingdom)
- Resellers: HP Platinum partners
- Quickly converts VFORM files to AcuBench screens
- Supports thin-client AcuBench GUI (Java)
- Offers VPLUS intrinsics library
  - Reduces the migration effort
  - Intrinsics calls need not be modified
- GUI form designer is AcuBench
- Pricing: Based on one conversion kit and number of users per target server
VPLUS screen on HP 3000

Fixed Tab Sequence
Left-Right
Top-Bottom

VPLUS Message Line

Function Key Labels
ScreenJet conversion defaults

- Title from Form Description
- Windows Menu generated from Function Keys, also supports app driven FKey labels
- Identical Screen Layout to original Form
- VPLUS Messages now in Windows Status Bar
- Function Keys on Windows Tool Bar, at bottom of screen, or omitted
- Error Messages in optional Pop Up, click or CR to clear
- Retains Field highlighting, cursor positioning, and tab sequence
Sample changes via AcuBench®

- Fkey Labels replaced by Icons
- Change Font and Colors
- Addition of Images
- Convert field to Radio Button
- Framed & linked Object groups
- Convert fields to Check Boxes

All these changes were made directly in the AcuBench Screen Painter and required no changes to the application code.
From 1-to-1 VPLUS migration to the “rich client”
LookVP

- Vendor: Cheops (France)
- Resellers: HP Platinum partners
- Quickly converts VFAST files to XML format
- Supports Char-based, GUI (Java) and Web (HTML)
- Offers VPLUS intrinsics library
  - Reduces the migration effort
  - Intrinsics calls need not be modified
- Includes GUI designer to enhance the forms
- Pricing: Based on number of developers and end-users per target server
LookVP

- **HP block-mode**
  - any HP terminal
  - any terminal emulator supporting HP protocol

- **VPLUS intrinsics**
  - the most currently used
  - up to 100% on demand

- **Processing specifications**
  - full support (init, edit, finish)
  - configuration on demand (device, light)

- **Maintenance of screens**
  - forms through a graphical IDE (Designer)
  - processing specifications (Spring 2004)
LookVP

Diagram:

- **Prog1**
  - VPLUS calls
  - MPE

- **Prog1m**
  - VPLUS calls
  - Unix

- **LibVP**
  - Proc. Specs
  - XML Template
  - Linux

- **Vp2xml**
  - 1️⃣

- **VFAST**
  - 2️⃣

- **Designer**

- **HP Terminal**
LookVP

HP 3000 | MPE | Legacy App. | VPLUS Intrinsics
---|---|---|---
HP 9000 Intel | HP-UX | Legacy App. | VPLUS Intrinsics

Any migration tool
i.e. AMXW

with no code modification!

HP Terminal
VPLUS replacement

Other solutions

- Legacy J’s ViewJ for PerCobol
- Sungard BI-Tech’s XFORM
- Transoft’s Intelligent Adapters
- Advanced Network Systems’ VPLUS adapters
- Robust Systems’ VB-VIEW
- eXegeSys’ client
Q&A

Thank you