AcuToWeb: The Future Of AcuCOBOL Development

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Senior Solutions Engineer
Company Update
Micro Focus is a global software company with 40 years of experience in delivering and supporting enterprise software solutions.
What year was Acucorp Inc founded and what was the current version of the product?

- 1988
  - Version 1.0

- 1988
  - Version 1.1

- 1988
  - Version 1.2

- 1988
  - Version 1.3
Acquisitions in Brief

- **2007**: AcuCorp (ACUCOBOL)
- **2008**: Liant (COBOL and PL/I development)
- **2009**: CompuWare (Application Testing)
- **2010**: Borland (Application Lifecycle Management & Testing)
- **2011**: Orbix (CORBA)
- **2012**: AccuRev (Agile Software Delivery)
- **2013**: Authasas (Advanced Authentication)
- **2014**: Novell, NetIQ, Attachmate (Identity, Access, Security, Connectivity, Collaboration, Performance Monitoring, Disaster Recovery)
- **2015**: Serena (ALM & DevOps)
Micro Focus

80+ Offices Worldwide

4,500+ Employees

$1.3bn Annual Revenue

20,000+ Customers

5,000+ Partners
Our product portfolio is focused on three primary capabilities: to **build**, **operate** and **secure** critical business applications and infrastructure.
COBOL Application Development Trends and the IT Landscape
Build the Right Business Applications
COBOL and Mainframe Solutions

Mainframe

Enterprise Developer
COBOL, PL/I, CICS, JCL, IMS

Distributed COBOL
Visual COBOL
ACUCOBOL
RM/COBOL
Windows, Unix, Linux, .NET, JVM, Cloud
The COBOL Market
Estimated annual spend on COBOL tooling

IBM Mainframe: $1.5B
Proprietary (non-IBM) systems: $150M
Distributed systems: $250M
• Visual COBOL flagship COBOL application development toolset for new customers
• Transition MF COBOL and RM/COBOL to Visual COBOL
• Delivering new roadmap for ACUCOBOL customers

ALL PRODUCT LINES REMAIN SUPPORTED
Micro Focus helps its customers to innovate faster with lower risk

We enable them to embrace new technology while building on what already works. We call this bridging the old and the new
Application Strategies Vary...

- Strategic
- Maintenance mode
- Considering alternatives
- Retiring
- New direction

Micro Focus enables our customers to innovate faster and with less risk ... to achieve their application strategy.
Plans for your current ACU application(s)?

- Maintain: 22
- Replace with COTS: 1
- Rewrite to another language: 1
Should you move to Visual COBOL?
Worldwide ACUCOBOL Deployment
What platform is your production environment on?
Platform Trends for ACUCOBOL

- Application deployment is increasing
- Windows is the dominant deployment platform
- Since 2010 there is significant increase for Linux
- Unix deployments remain relatively stable

ACU deployments are increasing!
What database technology are you currently using?
COBOL Data Trends
A Resurgence in Relational Data

Why RDBMS?

• BI and analytics
• RFP requirements
• Improved reliability and recoverability
What is the most popular relational database for Acu4GL?

- Oracle
- ODBC
- MSSQL Server
- DB2
After ACUCOBOL-GT, what is the most popular product?

- Acu4GL
- AcuServer
- AcuConnect Thin Client
- AcuXDBC
What tool do you use to maintain your source code?
**extend® Roadmap**

- Regular scheduled maintenance updates and hotfix deliveries
- ERQF - Enhancement Request Qualification Form process
- **Major** new release: **extend 10**
  - **extend 10.1** in January 2017
  - **extend 10.2** in December 2017 – January 2018
- 5+ year support for the latest version of **extend**

**extend 10.2**

- **AcuToWeb** on UNIX platforms, all remaining control Properties supported
- Native Code for Windows 64-bit
- **Acu4GL for MSSQL** for Linux
- **ACU4GL for ODBC** on Linux and UNIX
- C$PDF
A Strong Commitment to All ACUCOBOL Users

• An ongoing commitment to development and support
• Added value with RDBMS and IDE now included ‘in-the-box’
• Support for the most recent platforms
• New diagnostic tools
• Faster application performance
• First steps towards a comprehensive ACU UX modernization plan
Top 5 Features

*extend 10*

- New ACUCOBOL-GT platform support – Windows 10, Apache 2.4, .NET 4.5
- Large File support – Single files over 2gb are now supported
- ACUCOBOL-GT enhancements including AutoFill field
- Relational database support is now included as standard ‘feature’
- Tracing and profiler enhancements

[microfocus.com/extend10](microfocus.com/extend10)
What’s new in 10.1?
Vision – File System Utility Enhancements

*extend 10.1*

File management enhancements to vutil

- Add, remove or modify keys on an existing indexed file
  - vutil -key [-q | [-a kdesc] | [-d] | [-m kdesc]] file
  - -a add a key
  - -d deletes a key
  - -m modifies a key

- Faster rebuilds – multi-threaded vutil
  - vutil -rebuild [-J #] filename
  - -J number of threads to use
Unicode Support for Multi-National Applications

**ACCEPT and DISPLAY**
- UTF-16 data encoding on screens

**XML technologies**
- UTF-8 data encoding
  - AcuXML
  - C$XML
  - XML Parse/Generate

**Acu4GL for Microsoft SQL Server**

**COBOL_CHARACTER_SET**
- OEM
- ANSI
- UTF-8
- Numeric Value: ANSI CodePage (Ex: 437)

**Unicode library routines**
- C$UTF16-UTF8, C$UTF8-UTF16
- C$COBOL-UTF8, C$UTF8-COBOL
- C$88591-UTF8, C$UTF8-88591
Built in Print-to-PDF

extend 10.1

SELECT file-name ASSIGN TO [device]
  • Where device can be one of the following:
    • PRINT
    • PRINTER
    • PRINTER-1 to PRINTER-9

In the configuration file add the following variable
  • PRINTER -P PDF filename

Configuration variables
  • PDF_FONT_NAME, PDF_FONT_SIZE,
  • PDF_FONT_TRUETYPE_TTC
  • PDF_FONT_TRUETYPE_TTC_INDEX, PDF_PAGE_SIZE
  • PDF_PAGE_DIRECTION, etc...

No need to change your ACUCOBOL application - you can use the runtime configuration file to print straight to a PDF.
User Experience (UX) Trends for ACUCOBOL

1987: Character mode
1996: Graphical Desktop
2001: Remote access – Thin client
2004: Browser access – Web thin client
2008: Native look and feel
2010: SOA
Now:
- HTML5
- Mobile and tablet
- Multi-browser support
Multiple browsers
HTML5 compliant – no plugins
Modern look and feel
Character mode to web
Windows desktop and Mac
Same app for web and desktop
Tablet or Mobile
Secure
Dynamic customization
Reuse what you have already created
You want it now

You can try it now!
# How does AcuToWeb compare to ThinClient?

<table>
<thead>
<tr>
<th>Feature</th>
<th>Acu Thin Client</th>
<th>AcuToWeb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web browser support</td>
<td>Internet Explorer only - ActiveX plugin required</td>
<td>All HTML5 browsers supported</td>
</tr>
<tr>
<td>HTML5 support</td>
<td>X</td>
<td>✓</td>
</tr>
<tr>
<td>Mobile Tablet</td>
<td>X</td>
<td>✓</td>
</tr>
<tr>
<td>Modern look and feel</td>
<td>X</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-platform</td>
<td>X</td>
<td>✓</td>
</tr>
<tr>
<td>Dynamic Customization</td>
<td>X</td>
<td>✓</td>
</tr>
</tbody>
</table>
Modernize Your Business Applications
Your Next Step

extend 10.1 & AcuToWeb are available NOW!

Sign-up for a Value Profile Assessment
- A complimentary offering for Micro Focus customers
- Review business and technical goals alongside available resource and skill plans
- Build a future application roadmap

Contact your Micro Focus Account Manager
- Request a Product Evaluation
- Schedule a Value Profile Assessment
- Microfocus.com/contactus

Learn More: microfocus.com/acutoweb
The COBOL Community
Resources for You

community.microfocus.com
Help Us Build A Strong ACUCOBOL Community

Share your story

• Join an exclusive group
• Promote ACUCOBOL solutions and your own!
• Share best practices
• Micro Focus will guide through the process
• Contact your Account Manager to get started
Customer Success
Textile Management Systems
An early adopter of AcuToWeb

“IT delivery is changing and we had to adapt to keep our solution cutting edge. Micro Focus AcuToWeb helped us deliver a Cloud-ready Web and mobile solution. We have transformed the user experience and our service delivery model while reusing our application source code which is exactly what we wanted to do.”

— Dev O’Reilly
President
Textile Management Systems
Next Webinars

• **AcuToWeb: A new UI Experience**
  • April 20, 2017, 2:00pm EST
  • Deliver immediate UI transformation for ACUCOBOL-GT or character applications without risk or code change

• **AcuToWeb: Spotlight on the Tech**
  • May 4, 2017, 2:00pm EST
  • Modify Cascading Style Sheets to provide a customized experience for your customers