

The Progress Electronic Magazine

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Publisher's Statement:

Alas, I have finished up a contract with the Superior Court of California and am available once again to do work. If any of you have some work that can be done in the United States or via the wire, take a gander at my resume:

<http://www.amduus.com/Resumes/ScottAuge.html>.

I tend towards web based applications on UNIX/Linux operating systems. My skills include law enforcement, manufacturing, and service oriented companies and their problems. I also offer Webspeed training.

In this issue, we explore creating graphs with Webspeed or one of the alternatives that enable E4GL coding to be used. It is simple, but a common question on the internet. Finally we have a documented version with some code!

Amduus Information Works, Inc. also provides documentation services! Scott Auge notes, "One of the things I have noticed throughout my contracting career is that companies with developed software always seem to be missing or weak on user documentation, administration documentation, and programmer documentation." Amduus can help you with this!

!!!WANTED!!!

Amduus Information Works, Inc. is looking for consultants to resell access to up-coming ASP web based software. We will need you to find companies who would want use of this software, to configure the software to their needs, and to support them in the use of the software. The software is rented out – no licenses are sold. Each month, you would receive a portion of the revenue, as well be able to bill for training and support – modeled like an insurance agency. Contact sauge@amduus.com for more information.

Coding Article: Bar Graphs With Websppeed

By Scott Auge

There are many questions appearing on the Progress E-Mail Group (<http://www.peg.com>) about how to create various types of graphs on web pages. A previous E-Zine carries an article on how to create pie graphs – so this article will concentrate on bar graphs.

Reach over one thousand programmers and companies.

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Below is a quick test of the code made available further down in the article. As you can see, the code is encoded in functions that can be easily called from ESS or HTML mapped based code. It includes a function to create vertically oriented bars, and a function to create horizontally oriented bars.

The screenshot shows the 'WebSpeed Scripting Lab' interface. The code editor contains the following JavaScript code:

```
{/home/sauge/code/progress/barchart/barchart.1}  
  
{%OUT} "<center>" HBarChart ("5|10|20|30", "A|B|C|D", 10, 10, "80%")  
"%</center>".  
  
{%OUT} "<center>" VBarChart ("5|10|20|30", "A|B|C|D", 5, 10, "20%")  
"%</center>".
```

The 'Sample' dropdown menu is set to 'Simple DO Loop'. The 'Results' section shows two bar graphs:

- Horizontal Bar Chart:** Shows four horizontal bars labeled A, B, C, and D. The lengths of the bars correspond to the values 5, 10, 20, and 30 respectively.
- Vertical Bar Chart:** Shows four vertical bars labeled A, B, C, and D. The heights of the bars correspond to the values 5, 10, 20, and 30 respectively.

Testing Code

Below is the testing code that generate the bar graphs in the above screen print. To use the bar graph functions, the programmer merely needs to include the barchart.i file in their application code. Then call out to HBarChart for horizontally positioned bars, and VBarChart for vertically positioned bars.

```
{/home/sauge/code/progress/barchart/barchart.i}
{&OUT} "<center>" HBarChart ("5|10|20|30", "A|B|C|D", 10, 10, "80%")
"</center>".
{&OUT} "<center>" VBarChart ("5|10|20|30", "A|B|C|D", 5, 10, "20%")
"</center>".
```

The first argument are the actual values to determine the bar size. These values included with the “magnification” value will create a bar of value x magnification pixels wide. The values are separated by the | character, which allows the user to send in a list of values. Sending decimals are not recommended.

The next argument is the labels to be associated with each bar. They are respective to the list of values in the first argument.

The next value is the magnification value. This lets you “magnify” the bar chart if the original values won’t create images large enough to be seen. For example, from the data set, one might get a value of 1. This would translate to 1 pixel on the screen. This argument is used to increase the size with the same ratio associated with the other bars. Using a magnifier of 10, it would change the 1 value into a 10, making that bar in the chart 10 pixels in length.

The following argument specifies the width of the bar. You can increase or decrease the bar thickness with this value in pixels.

The final argument is the size of the table the bar chart should appear in.

You can include the function in other HTML tags such as the <center> shown above.

BarChart.html / BarChart.i

Here is the E4GL code that when compiled will create the appropriate .i file.

```
<!--WSMETA NAME="wsoptions" CONTENT="include" -->
<!--WSS
/*
* Removal of this header is illegal.
* Written by Scott Auge scott_auge@yahoo.com sauge@amduus.com
```

```

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*
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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
*/

&IF DEFINED(BarChartRCSVersion) <> 1 &THEN
&GLOBAL-DEFINE BarChartRCSVersion YEP
DEF VAR BarChartRCSVersion AS CHARACTER INIT "$Header:
/home/sauge/code/progress/barchart/barchart.html,v 1.1 2003/05/18 00:24:52
sauge Exp sauge $" NO-UNDO.
&ENDIF

FUNCTION HBarChart RETURNS CHARACTER
(INPUT cListHorizonValue AS CHARACTER,
 INPUT cListLabel AS CHARACTER,
 INPUT cMagnification AS INTEGER,
 INPUT cVerticalValue AS INTEGER,
 INPUT cTableWidth AS CHARACTER
):

  DEF VAR i AS INTEGER NO-UNDO.
  DEF VAR l AS INTEGER NO-UNDO.

  ASSIGN l = NUM-ENTRIES(cListHorizonValue,"|").

  -->

  <table width="`cTableWidth`" border="0" cellspacing="0" cellpadding="0">

    <!--WSS DO i = 1 TO l: -->
    <tr>
      <td width="20%"><div align="right">`ENTRY(i,cListLabel,"|")`</div></td>
      <td width="80%"></td>

```

```

    </tr>
    <!--WSS END. -->
</table>

<!--WSS
RETURN "".
END.

FUNCTION VBarChart RETURNS CHARACTER
(INPUT cListHorizonValue AS CHARACTER,
 INPUT cListLabel AS CHARACTER,
 INPUT cMagnification AS INTEGER,
 INPUT cVerticalValue AS INTEGER,
 INPUT cTableWidth AS CHARACTER
):

  DEF VAR i AS INTEGER NO-UNDO.
  DEF VAR l AS INTEGER NO-UNDO.

  ASSIGN l = NUM-ENTRIES(cListHorizonValue,"|").

  -->

  <table width="`cTableWidth`" border="0" cellspacing="0" cellpadding="0">

    <tr>
      <!--WSS DO i = 1 TO l: -->
      <td valign="bottom"><div align="center"></div></td>
      <!--WSS END. -->
    </tr>

    <tr>
      <!--WSS DO i = 1 TO l: -->
      <td><div align="center">`ENTRY(i,cListLabel,"|")`</div></td>
      <!--WSS END. -->
    </tr>

  </table>

  <!--WSS
RETURN "".
END.
-->

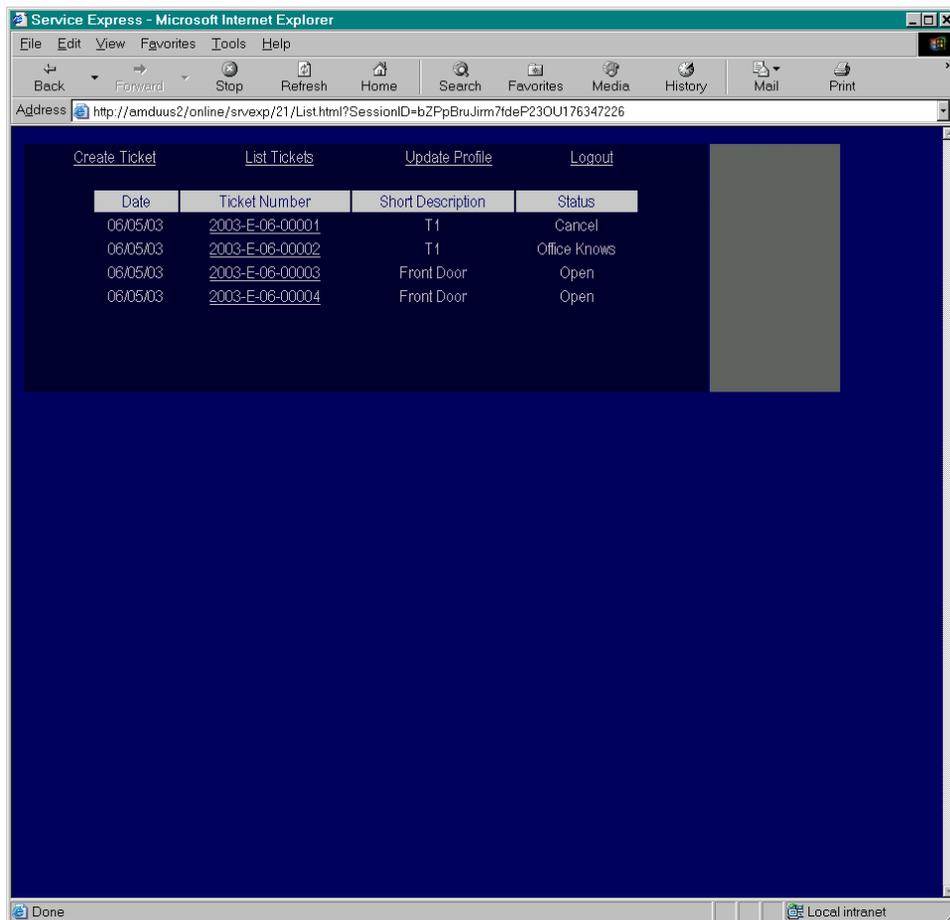
```

The code is dependent upon two graphics. They can be png, gif, or jpg. You can pull the images I used from <http://www.amduus.com/icons/other/barrevp.png> and <http://www.amduus.com/icons/other/barrehp.png>. There are other colors available also. Please make copies of the image and install them on your system so they are available to you all the time.

About the author: Scott Auge is the founder of Amduus Information Works, Inc. He has been programming in the Progress environment since 1994. His works have included E-Business initiatives and focuses on web applications on UNIX platforms. sauge@amduus.com

Representatives Wanted!!!

Amduus Information Works, Inc. finally has a working version of the Service Express available!



A listing of tickets belonging to a customer

This software will help an organization track various configurable types of issues. These issues can be internal to the organization, or external to it – between it's customers and it's self.

We need people, who can approach other companies with the possibility of installing this software there. People who know, or will come to know, the inner workings of the organization, as this software will have a means of workflow to it. We need people who want to earn money configuring the application for an organization, training in it's use, and acting as it's support

liaison. You would need to be an independent entity. You can bill hours for the analysis, training, and support. Like an insurance agent, you will receive a portion of the proceeds from the monthly rental of the application for that company.

The software is not sold. We will only lease it. The software can run on our computers on our internet connection, thereby eliminating the need for connection set up and finding database administration skills; Or they may have the software on our or their computer positioned in their organization.

The screenshot shows a Microsoft Internet Explorer window titled 'Service Express - Microsoft Internet Explorer'. The address bar contains the URL: <http://amduus2/online/srvexp/21/Update.html?SessionID=bZPpBruJimm7ideP23OU176347226&TicketSeq=hra2dg5Utn2780228>. The page content includes navigation links: 'Create Ticket', 'List Tickets', 'Update Profile', and 'Logout'. The main content area is titled 'Contact Information' and contains the following data:

Name	1027 F 1027 Last Name	Phone	555-555-1212
Email	saug@amduus.com	Fax	No Fax
Pager	No Pager	Mobile	No Mobile
Ticket Address:	address2 city2, state2zipcode2		
Reference	2003-E-06-00004	Status	Open
Ticket Type	House Repair	Priority	1
Problem Type	Broken Door		
Brief Description			
Front Door			
Statement of Work			
There is wind coming in under the front door. Some weather stripping might be needed?			
Work Log			
06/05/03 16:07:52			
Status: Open by 1027 F 1027 Last Name			
06/05/03 23:02:37			
1027 F 1027 Last Name Adds:			
Will be out on the 12th at noon....			
Update Work Log			
<input type="text"/>			
Change Status			
No Change			
Submit			

The browser status bar shows 'Done' and 'Local intranet'.

A customer's ticket information and work log

You can reach the public portion of the application here:

<https://www.amduus.com/cgi-bin/se0001pub/21/index.html>

You would be acting as a customer of a company with relations to the organization running the web site. Your company name would be Demo, and to prove that you are indeed an employee/representative of that company, you would know that the authorization code is Demo.

Let me point out that you could be an internal customer, such as HR approaching IT about setting up a new employee; Or, you could be an external customer approaching the organization with a request for a service to be performed.

This could be used by a manufacturing company for repairs/over-hauls of their equipment. An apartment complex for handling property issues. Any company/organization that wishes to interact with it's customers in a manner that needs to be defined and tracked for a process of completion.

Please contact Scott Auge at sauge@amduus.com for more information.

Publishing Information:

Scott Auge publishes this document. I can be reached at sauge@amduus.com.

Amduus Information Works, Inc. assists in the publication of this document by providing an internet connection and web site for redistribution:

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Other Progress Publications Available:

This document focuses on the programming of Progress applications. If you wish to read more business oriented articles about Progress, be sure to see the Profile's magazine put out by Progress software <http://www.progress.com/profiles/>

There are other documents/links available at <http://www.peg.com> .

There is a web ring of sites associated with Progress programming and consultants available at <http://i.webring.com/hub?ring=prodev&id=38&hub> .

Products Available From Amduus:

Amduus Information Works, Inc. is a Progress reseller and ASPen partner. We primarily develop UNIX/Linux based applications with web interfaces for manufacturing, service, and law enforcement communities.

We also perform integration of Progress applications to non-Progress applications through such languages and tools as MQ Series, C, and C++.

Amduus provides support for the following applications: Blue Diamond, Denkh, Denkh HTML Reporter, Red Arrow Portal (CMS), Survey Express and other software.

Amduus is looking for consultants who might want to promote the use of our tools at user groups and companies they might work in. Send some information to sauge@amduus.com to let me know you are out there!

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- Blue Diamond/IRIS – Webspeed alternatives
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- Service Express – Web based Help Desk.
- The Progress E-Zines, books on learning to program in Webspeed (PDF/Word/HTML)
- Denkh HTML Reporter – web based report writer
- CMS – a web content management system
- DB Email – Use pop3 to download emails into a Progress database
- Neural Networks – experiments in spam recognition and text message classification
- Denkh – create PDF file reports for Webspeed/UNIX CHUI!
- More!

