

Installation Document for HTML Calculators

By Pine Grove Software, LLC

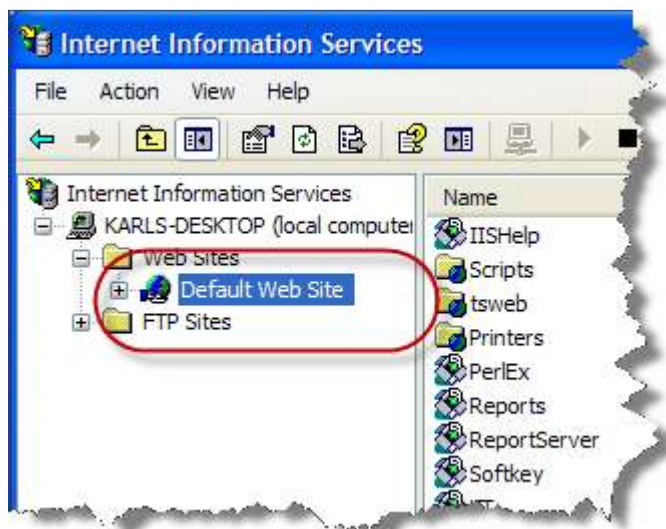
As Of: June 17, 2010

REQUIREMENTS:

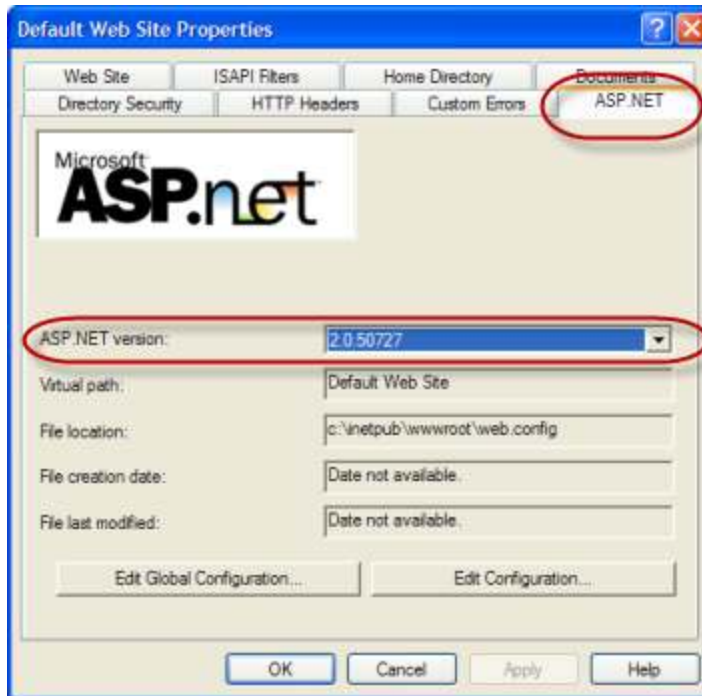
CLIENT SIDE: The client side HTML calculators have been specifically tested on IE 6 and greater, Google Chrome v5, Firefox v2 and greater and Apples Safari. (The calculators have been on a production web site with 1,000+ hits a day for over a month and all minor problems that have been reported have been fixed.)

SERVER SIDE: The web server must have either PHP (tested on v5.2.10) or ASP.NET v2.0 (or greater) installed.

To confirm that your server is configured with ASP.NET, open Internet Information Services manager and select the “Default Web Site” in the left pane:



1. Right click and select “Properties”.
2. The Default Web Site Properties window will show you if you have ASP.NET installed and what version it is.



If you do not have access to IIS, then you'll have to confirm this with your web hosting company. Either their tech support can answer this question or you can look at their hosting software for some clues.

To confirm if PHP is installed, run the PHP script:

GetPHPInfo.php

from your browser.

This script is included in the ZIP file we distribute. Copy it to your web site's root folder. Enter into your browser's address bar this URL:

<http://www.your-domain.com/GetPHPInfo.php>

If PHP is installed and configured correctly, you'll see a window that will be similar (but not exactly) to this:



NOTE: To use these calculators, either the ASP.NET or the PHP proxy server must run on your site and be able to communicate with the web services on the www.pine-grove.com domain. Since we use a web service for the calculations we can make changes (offer new calculations and/or fix bugs) and roll the changes out on our server which are then immediately available to everyone using our calculators. There is no software to distribute to our users and nothing for them to install (unless of course there is a new calculator)

INSTALLATION:

Installation is very straight forward.

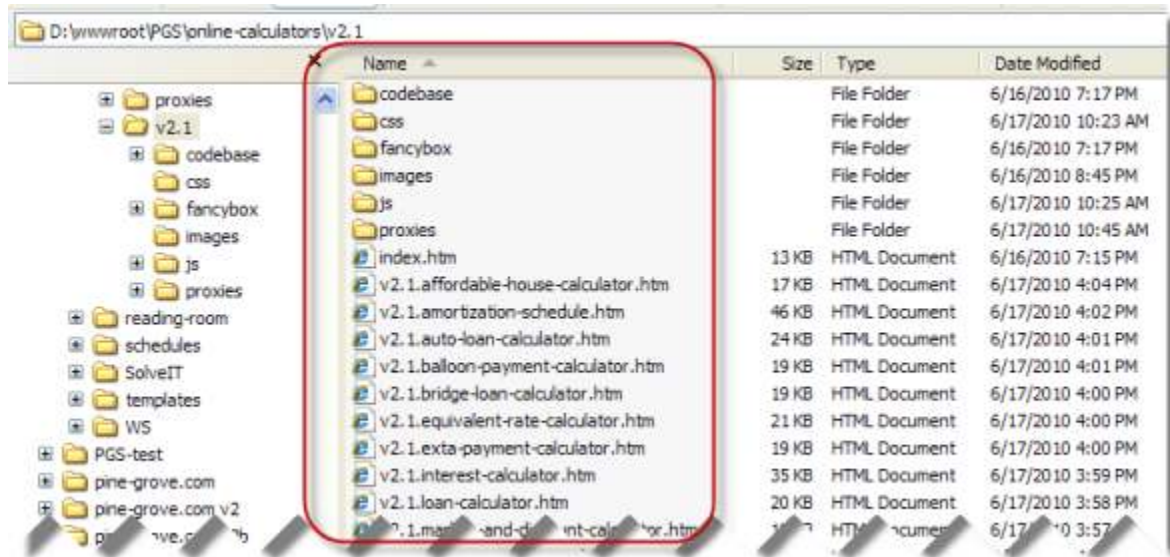
1. We suggest that you create a folder off the root of your domain by the name of "Calculators".

Example:

www.your-domain.com/calculators

2. Unzip the zip file you downloaded into this folder and preserve the folder structure.

After unzipping, you should see something similar to this in the new “calculators” folder.



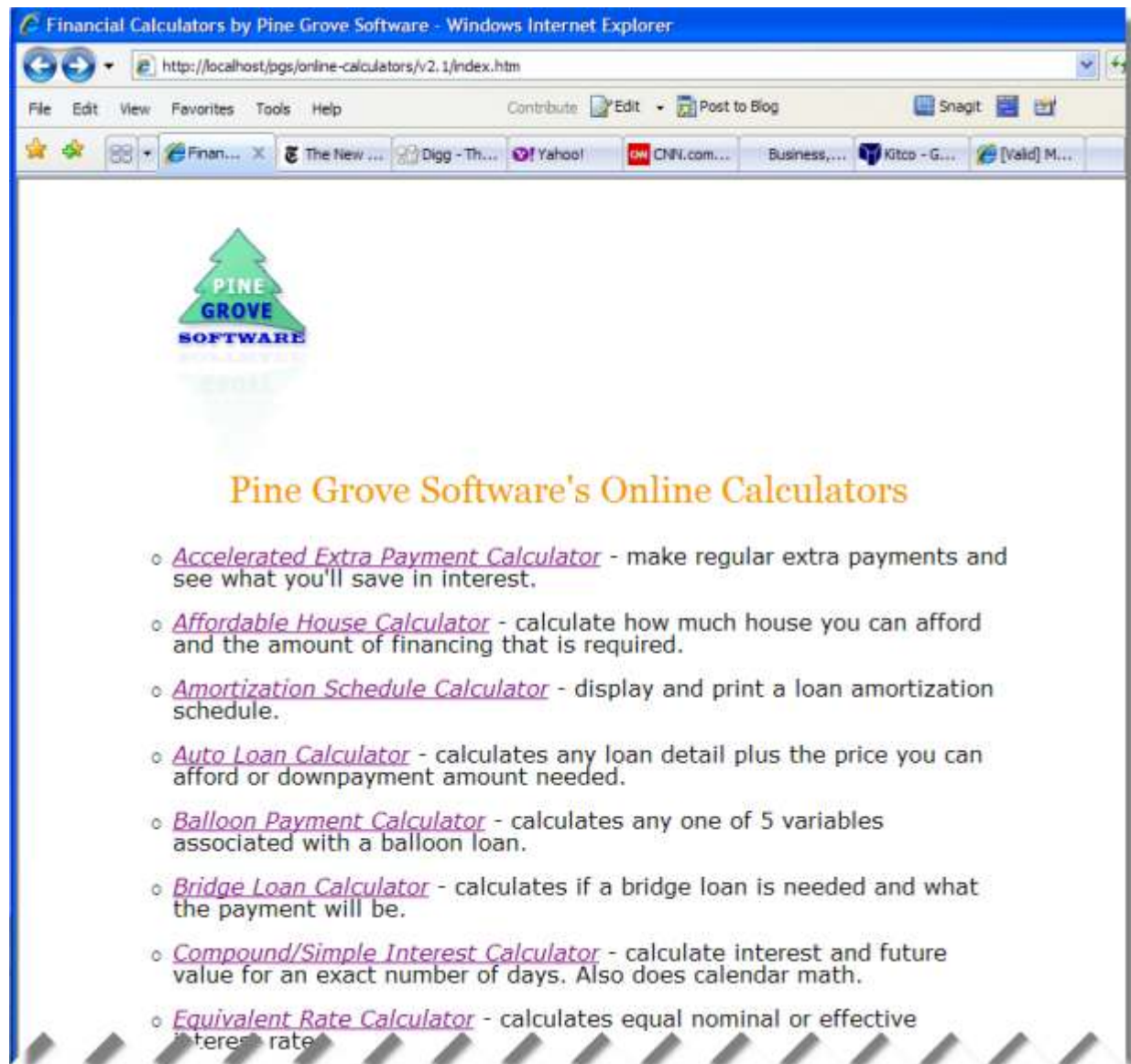
You should be also able to enter this URL, and see an index of all calculators:

<http://www.YOUR-DOMAIN.COM/calculators/index.htm>

Naturally replace the “YOUR-DOMAIN.COM” with your web site’s address. Also, if you are working on a development computer, then “YOUR-DOMAIN.COM” might be the “localhost”. So your URL could be:

<http://localhost/calculators/index.htm>

If everything is installed correctly, you should see an index page that looks similar to this:



If the installation is working, you should be able to click on the name of any calculator and the calculator will display. (You will not be able to solve any problems yet, however.)

CONFIGURATION:

There is only one step left and that is configuring the web server. Configuration involves editing one script to set a folder's path. That's it.

1. Find the “calculators.js” script in the “js” folder under “calculators”. (This assumes you unzipped the files in a “calculators” folder):

{your web site path}\calculators\js\calculators.js

Open the file “calculators.js” in any text editor (Windows Notepad will do – you cannot use “Word” or “Write”).

Locate this section near the top of the file:

```

1  |<!--
2  | var FirstTime = false; // change to "false" so that strCalcMsg never displays:
3  | var UsePHPProxy = false;
4  | var UseNETProxy = true;
5  | // Change web service location here:
6  | if (UsePHPProxy)
7  | > {
8  |     //strWebService = 'http://localhost/pgs/online-calculators/proxies/calculators.php';
9  |     strWebService = 'http://localhost/pgs/online-calculators/proxies/calculators.php';
10 | }
11 | //strWebService = 'http://localhost/pgs/online-calculators/proxies/calculators.php';
12 | } else if (UseNETProxy)
13 | {
14 |     //strWebService = 'http://localhost/pgs/online-calculators/proxies/CalcFrox.asp?Net.ssmw/Calc.Frox';
15 |     strWebService = 'http://localhost/pgs/online-calculators/proxies/CalcFrox.asp?Net.ssmw/Calc.Frox';
16 | } else {
17 |     // location of .NET web service - no cross-domain calls allowed:
18 |     var strWebService = "..\WS\CalcServices.asmx";
19 | }
20 |
21 | var strCalcMsg = "The first calculation may take 5-10 secs.\n\nAdditional calculations will happen nearly instantly.
22 | "This message will not be displayed again for this calculator.";
23 | var strWSPath = "WS/CalcServices.asmx"; // local path of true equations web service i.e. no domain name. DO NOT EDIT
24 |
25 | /* Currency symbols see: http://www.se.com/symbols.pdf */
26 | var EUR="\u20ac"; // Euro - Optionally: "\u20ac" note initial space for right aligned symbol.
27 | var GBP="\u00a3"; // Pound
28 | var INR="\u20b5"; // Indian Rupee - sometimes Rs.
29 | var JPY="\u00a5"; // Yen
30 | var KPW="\u20a9"; // North Korea Won
31 | var USD="\u0024";
32 |
33 | var CCY = USD; /*For no currency symbol CCY = ""*/
34 | var CCY_r = ""; /*If CCY on right*/
35 | varFmt = "%"; /*Do Not Change*/
36 | varDFmt = ".";
37 | varSep = ","; /*Thousands separator*/
38 | varUSDfmt = "."; /*Do Not Change*/
39 | varXMLNS = "http://www.w3.org/2000/xmlns/";
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```

2. Set the value of the “strWebService” variable to the path where you installed the proxy server. If you followed our suggestions, the is how you should edit the value assigned to “strWebService”

If UsePHPProxy is true then:

```
strWebService = 'http://www.YOUR-DOMAIN.COM/calculators/proxies/calculators.php';
```

If UseNETProxy is trun then:

```
strWebService = 'http:// www.YOUR-DOMAIN.COM/calculators/proxies  
/CalcsProxyASPNet.asmx/Calc_Proxy';
```

You'll see “strWebService” multiple times. Make sure you edit the right one.

>>>

```
// change web service location here  
if (UsePHPProxy) {  
    if (UseNETProxy) { alert("Only one proxy server can be set to 'true' at the same time.") };  
    var strWebService = 'http://localhost/pgs/online-calculators/proxies/calculators.php';  
    //document.write(strWebService);  
} else if (UseNETProxy) {  
    if (UsePHPProxy) { alert("Only one proxy server can be set to 'true' at the same time.") };  
    var strWebService = 'http://localhost/pgs/online-  
calculators/proxies/CalcsProxyASPNet.asmx/Calc_Proxy';  
} else {  
    // location of .NET web service - no cross-domain calls allowed  
    var strWebService = "../WS/CalcServices.asmx";  
};  
>>
```

If UsePHPProxy is true, change the strWebService in yellow.

If UseNETProxy is true, change the strWebService in blue.

NOTE: any line in the calculator.js script that starts with a double slash “//” is a comment line. Do not edit those.

IIS CONFIGURATION (only if UseNETProxy = “true”):

If you set

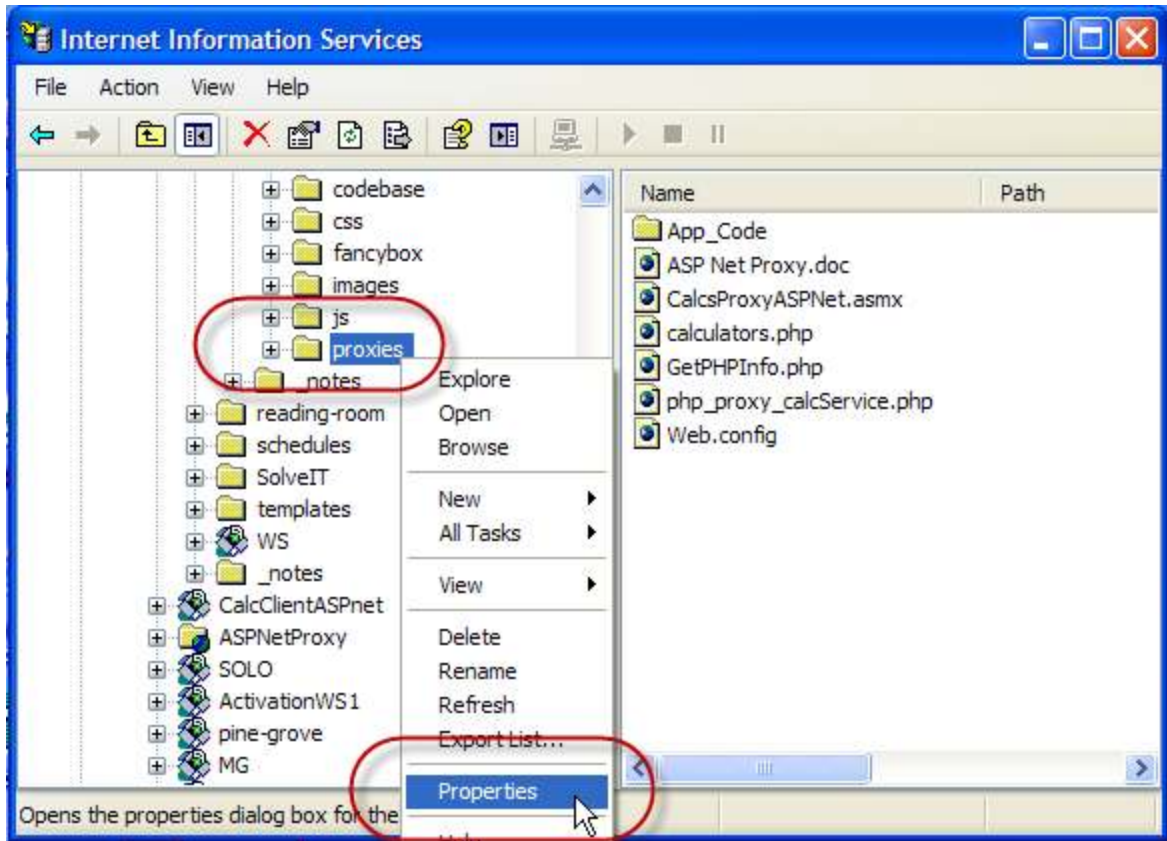
UseNETProxy = “true”

There is one more step. You have to create an application in the IIS manager.

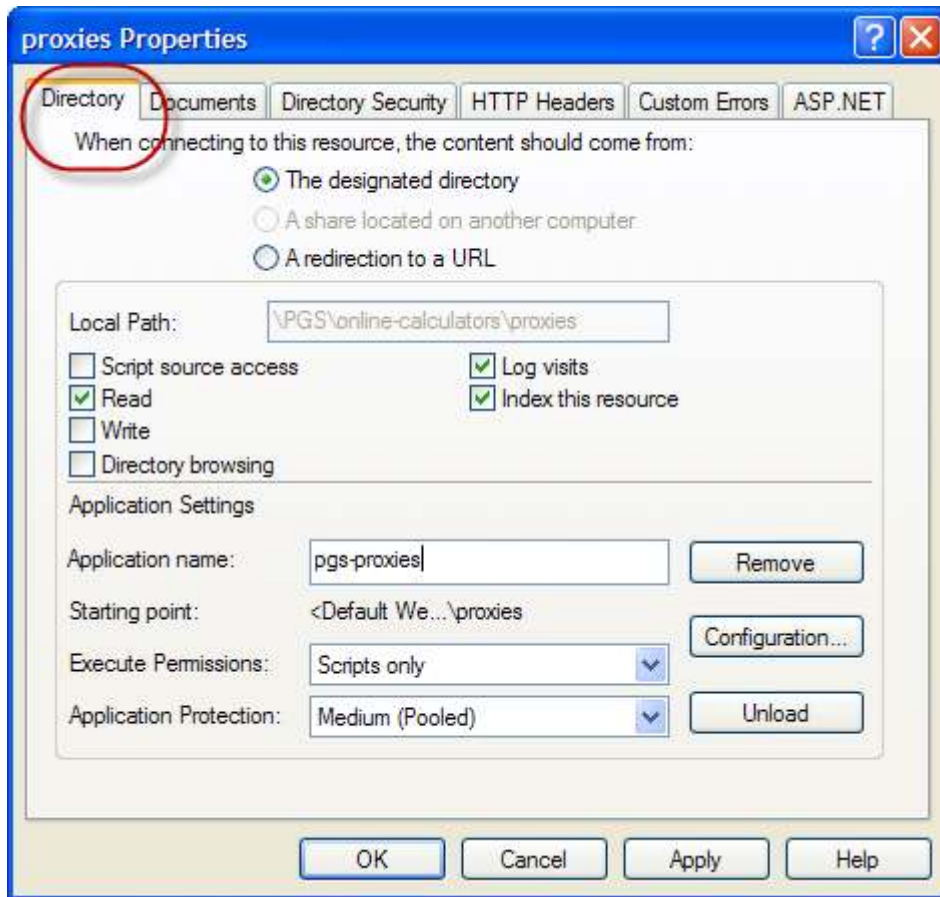
NOTE: Web host companies have other software to create a .NET application folder. Contact your hosting company. This should be a very simple thing for you to set using your hosting company’s software (or they will make the setting for you). You can give them the below instructions if they seem to be at a loss.

But assuming you have access to IIS and you are the site’s administrator, follow these steps:

1. Run IIS, and find the “Proxies” folder in your web site in the left pane.
2. Select it. Right click. And select “Properties”.



3. In the properties window, make the following edits (that is, make your "Directory" page look like the below):



4. Click "Apply" and then close.
5. If you are using ASP.NET v3.5 or greater, you may have to update the web.config file. This file is located in the \proxies\ folder. The install default uses a web.config file that is suitable for ASP.NET v2 or greater. There is a web.config file named web.3.5.config in the proxies folder as well. If you are using v3.5 or greater then replace the default web.config with the web.3.5.config. (Rename web.config to web.config.bak and rename web.3.5.config to web.config.)
6. You may have to start and stop the web services. Only do this if your calculators do not work. Right click on your web site in the left pane (this is probably the "default web site". Select "Stop". Then "Start". **NOTE:** This will interrupt users on your web site (but very briefly)!

NOTE: The "Application name:" is anything you want it to be. It is not referenced anywhere.

TEST: You can test the ASP.NET proxy to see if it's working correctly by entering this URL:

<http://www.YOUR-DOMAIN.COM/calculators/proxies/CalcsProxyASPNet.aspx>

This assumes you have installed all the files in their default locations. If the ASP.NET proxy is installed correctly, you'll see a page in your browser that looks like this:



Should you not see the above page, you'll see an error message. Copy/paste the error message to an email and send it to us if you don't understand the error.

OPTIONAL CONFIGURATION:

The calculators can be configured according to local conventions for currency symbols, thousand's separator and decimal separator. Find this section (near the top) in "calculator.js":

>>

```
var strCalcMsg = "The first calculation may take 5-10 secs.\n\nAdditional calculations will happen nearly instantly.\n\n"+
```

```
    "This message will not be displayed again for this calculator.";
```

```
var strWSPath = "WS/CalcServices.aspx"; // local path of true equations web service i.e. no domain name. DO NOT EDIT!
```

```
/* Currency symbols see: http://www.xe.com/symbols.php */
```

```
var EUR="\u20ac"; // Euro Optionally: " \u20AC" note initial space for right aligned symbol.
```

```
var GBP="\u00a3"; // Pound
```

```
var INR="\u20a8"; // Indian Rupee - sometimes Rs
```

```
var JPY="\u00a5"; // Yen
```

```

var KPW="\u20a9"; // North Korea Won
var USD="\u0024";

var CCY = USD; /*For no currency symbol CCY = ""*/
var CCY_r = ""; /*If CCY on right*/
var Pct = "%"; /*Do Not Change*/
var DPnt = ".";
var Sep = ","; /*thousands separator*/
var USDPnt = "."; /*Do Not Change*/

```

>>

To change the currency symbol, set the “varCCY” variable to equal the symbol you desire. For example, if you want the display currency symbol to be the pound sterling, make this edit:

```
CCY=GBP
```

Similarly, if you want to replace a decimal point with a comma, make this edit:

```
DPnt=","
```

And if you want the thousands separator to be a decimal point or space, make the appropriate edit:

```
Sep=" " /* a space */
```

Or

```
Sep="." /* a period */
```

What if the currency symbol is displayed on the right?

Make these settings:

```
CCY= ""
```

And then assign the currency symbol that you want on the right to this variable:

```
CCY_r
```

NOTE: You can add currency symbols as you desire. See this reference:

http://www.alanwood.net/unicode/currency_symbols.html

Use the value in the “Hex” column and create a variable.

Example, if you wanted to create a symbol for the KIP currency, you might create a variable like this after the USD row:

```
var KIP="\20ad"; // KIP
```

and then set

```
CCY=KIP
```

(According to Wikipedia, this is the currency symbol for Laos.)

NOTE: The variable

USDPnt

Is used internally by the calculators. This must NOT be changed. Ever.

FINISHED:

That’s it! You’re finished. You should be able to use any calculator. Pat yourself on the back if you have it working. Otherwise, write to:

webmaster@pine-grove.com

Tell us what you did, and what error message you see, if any, and we’ll provide basic support.