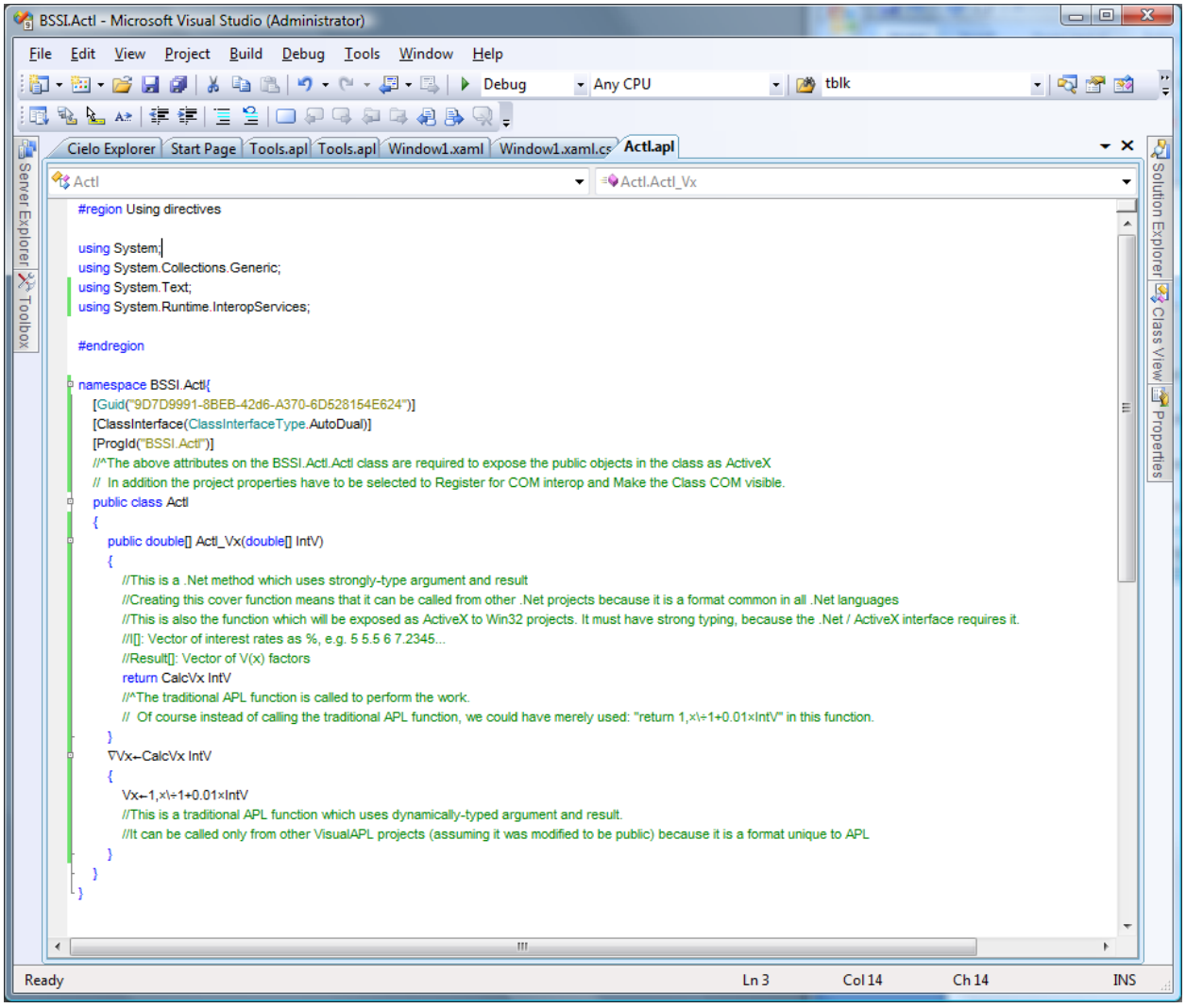
VIsualAPL for Visual Studio 2008: Using VisualAPL in APL+Win and in C# WPF GUI

The following screen capture illustrates a simple example of a VisualAPL class 'BSSI.Actl.Actl', which includes the method 'Actl_Vx', which can be referenced and used by any .Net project. The class is also exposed as ActiveX so it can be used by any Win32 application such as APL+Win or VB6.



The following screen capture illustrates the use of the VisualAPL 'BSSI.Actl.Actl' class as ActiveX by an APL+Win session.

```
      ⎕sys
0 2 0 1 1 1000 1 0 0 0 100 2 1 0 0 0 0 200 6202 37 0 0 ¯1 0
      '#'⎕wi 'XInfo' 'BSSI.Actl'
 BSSI.Actl ActiveObject BSSI.Actl.Actl
      A←'A'⎕wi 'Create' 'BSSI.Actl'
      A⎕wi 'methods'
 Close Create Defer Delete EnumEnd EnumNext EnumStart Event Exec Info Modify New
       Open Ref Send Set SetLinks XActl_Vx XEquals XGetHashCode XGetType
      A⎕wi '??XActl_Vx'
XActl_Vx method:
  Result@Array_Double ← ⎕WI 'XActl_Vx' IntV@Array_Double
      v1←A⎕wi 'XActl_Vx' (120⍴5.25)
v2←1,×\÷120⍴1.0525
      v2≡v1
1
      v1
1 0.95011876484561 0.90272566731174 0.85769659602066 0.81491363042343
      0.77426473199375 0.73564345082542 0.69894864686501 0.66408422504989
      0.63095888365785 0.59948587520936 0.5695827792963 0.54117128674233
      0.51417699452953 0.48852921095442 0.46416077050301 0.44100785796011
      0.41900984129227 0.39810911286676 0.37825093859075 0.35938331457553
      0.34145683095062 0.3244245424709 0.30824184557805 0.29286636159435
      0.27825782574285 0.26437798170342 0.25119048142843 0.23866078995575
      0.22675609496983 0.21544522087395 0.20469854714865 0.19448793078256
      0.18478663257251 0.17556924709977 0.16681163619931 0.15849086574756
      0.15058514560338 0.14307377254478 0.13593707605205 0.12915636679529
      0.12271388769149 0.11659276740284 0.11077697615472 0.10525128375745
      0.10000121972205 0.095013035365364 0.090273667805572 0.085770705753512
      0.081492357010463 0.077427417587138 0.073565242363077 0.069895717209574
      0.066409232503158 0.063096657960245 0.059949318727074 0.056958972662303
      0.054117788752782 0.051418326605969 0.048853516965291 0.046416643197426
      0.044101323703018 0.041901495204767 0.039811396869138 0.037825555220083
      0.035938769805305 0.034146099577487 0.032442849954857 0.03082456052718
      0.029286993374993 0.02782612197149 0.026438120637995 0.025119354525411
      0.023866370095402 0.022675886076392 0.021544784870681 0.020470104390196
      0.019449030299473 0.01847888864558 0.017557138855658 0.016681367083761
      0.015849279889559 0.01505869823236 0.014307551764713 0.013593873410653
      0.012915794214397 0.012271538445983 0.011659418951053 0.011077832732592
      0.010525256753056 0.010000243945897 0.0095014194260303 0.00902747688934
      0.0085771751917719 0.0081493350990707 0.007742836198642 0.0073566139654556
      0.0069896569743046 0.0066410042511208 0.0063097427564093
      0.0059950049942131 0.005695966740345 0.0054118448839382 0.0051418953766634
      0.0048854112842408 0.0046417209351456 0.0044101861616585
      0.0041902006286542 0.0039811882457522 0.0037826016586719
      0.0035939208158403 0.0034146516064991 0.003244324566745 0.003082493650114
      0.0029287350594908 0.0027826461372834 0.0026438443109581
      0.0025119660911716 0.002386666119878 0.0022676162659173 0.0021545047657172
```

The Visual Studio 2008 solution containing the VisualAPL ‘BSSI.Actl.Actl’ class also contains two other projects, a C# Windows Presentation Foundation (WPF) GUI project ‘TestHarness’ which uses the VisualAPL ‘BSSI.Actl.Actl’ class to perform the calculations and the VisualAPL ‘BSSI.APLTools.Tools’ class to facilitate the validation of the GUI entry fields. The following screen capture illustrates the WPF GUI and the VIsualAPL calculated result.