

## **APLNext Lightweight Array Engine**

### **VisualAPL Array-based Operations Available in C# and VB.Net**

The **APLNext Lightweight Array Engine** (LAE) is a suite of fully-managed .Net assemblies designed to provide the benefits of APL array-based operations to the C# programming environment. The APLNext LAE is designed for an experienced C# programmer and does not require APL characters, APL syntax or an APL compiler. The APLNext LAE extends many powerful operators from scalars to arrays of the dynamically-typed Cielo Variable (cvar) class.

Example #1 illustrates a simple example of a C# console project which collects input and uses it to perform an array based operation using the APLNext Lightweight Array Engine. Example #1 is available here: <http://forum.apl2000.com/viewtopic.php?t=369>.

Example #2 illustrates a simple example of a C# console project which uses the '**dynamic data typing**' and **array-based operator extensions** of the APLNext LAE. Example #2 is available here: <http://forum.apl2000.com/viewtopic.php?t=374>.

Example #3 illustrates how to load, compile and run the VisualAPL functions in a VisualAPL Cielo Explorer script in C# or any other .Net programming language such as VB.Net or VisualAPL. Example #3 is available here: <http://forum.apl2000.com/viewtopic.php?t=519>.

The **APLNext VisualAPL** product also incorporates the LAE. VisualAPL is designed for the experienced APL programmer, providing a fully-managed .Net APL implementation integrated with Microsoft Visual Studio, including the APL character set, APL syntax, an APL compiler and the Cielo Explorer interactive session and scripting engine.