



APL+Win Version 16.2
Copyright (c) 2016 APLNow LLC.
All Rights Reserved
October 17, 2016

The APL+Win v16.2 release is available and recommended for all current APL+Win subscribers. To obtain this release, visit <http://www.apl2000.com/software.php> and click [APL+Win v16.2 Installer](#).

Bug Fixes:

- Fixed bug that caused an overflow in the size of an int for boolean data. The fix was applied to these primitive functions: or (\vee), and (\wedge), nand (\nabwedge), nor (\nabvee), not-equal (\neq), equal ($=$), less than ($<$), greater than ($>$), less than or equal (\leq), greater than or equal (\geq).

Example:

```
)clear
CLEAR WS
A←2147483647ρ0
B←2147483647ρ1
5↑A∨B      A This should yield five 1s
0 0 0 0 0
A repeat
A←2147483647ρ0
B←2147483647ρ1
5↑A∨B
1 1 1 1 1
```

- Between versions 5.0 and 16.1, the Del-Tilde (\nabwedge) character behaved like the Diamond (\diamond) character.

Example:

```
2*3 ∇ 2+3      A This should yield a SYNTAX ERROR
8
5
```



- The Binomial primitive function gives a DOMAIN ERROR in versions 15.0 to 16.1 for various combinations of the right and left arguments.

Examples:

```
      13!30  ⍺ works
119759850
      13!31  ⍺ fails
DOMAIN ERROR
      13!31
      ^
      9!39   ⍺ works
211915132
      9!40   ⍺ fails
DOMAIN ERROR
      9!40
      ^
```

- In version 16.1, the 'Show or Hide Code Walker' toolbar button did not appear in the Code Walker Toolbar. This resulted in the wrong captions for the remaining toolbar buttons in the Code Walker Toolbar.
- Prior versions of APL+Win may crash on some machines when moving the mouse off the APLGUI form while a tooltip is displayed in a Listview control in Windows 8 and 10.

APLNext C# Script Engine v3.0.6.0 Updates

- **New CSE installer**

The CSE installer has been updated: "APLNext CSE Components Setup v3.0.6.0.msi". Before running the CSE installer check the file's properties to be sure it is not 'blocked'. The CSE installer registers ActiveX components of the CSE on the target workstation, therefore elevated privileges are required to properly install the CSE.

- **Enhanced CSE documentation & examples**

Improvements in the CSE documentation have been implemented. Additional CSE examples have been developed. Note especially examples #103 and #208 which illustrate CSE behavior



applicable to CSE v2.0.34.0 and v3.0.6.0 which may be modified in a future version of the CSE.

- Example #037: Setting .Net Culture in the CSE environment
- Example #103: SetValue/GetValue: Text scalar behavior
- Example #133: Dependent .Net assembly
- Example #207: Define new methods using .Net DateTime type
- Example #208: SetValue for public static string property

- **Updated .Net components**

This version of the CSE incorporates Microsoft SignalR version 2.2.50714.8683 and Newtonsoft [json serialization] version 6.04.17603.

- **Microsoft .Net Framework version**

This version of the CSE requires the Microsoft .Net Framework v4.6.1 (full).

- **Required APL+Win version**

This version of the CSE requires APL+Win v16.0.01.

- **Required Windows Operating System**

This version of the CSE requires 64-bit hardware and 64-bit Windows operating system installed on the target workstation starting with Windows 7 SP1 or Windows Server 2008.

- **CSE version compatibility with APL+Win versions**

The enhancements described here apply to version 3.0.6.0 of the CSE which is associated With APL+Win v16.0 – v16.2. CSE versions are linked to specific versions of APL+Win and the Microsoft .Net Framework. This version of the CSE is not compatible with APL+Win prior to version v16.0. CSE versions prior to v2.0.34.0 are not compatible with APL+Win if the Microsoft .Net Framework 4.6.1 has been installed on the target workstation.

The CSE development team strives to maintain an invariant programming syntax among CSE versions, however new features of the CSE may require new programming syntax. Detailed documentation of these CSE enhancements including their implementation technology is included with the [CSE documentation and examples](#).

APL2000
www.apl2000.com

Corporate Office
PO Box 361
Brielle NJ 08730
732-223-5575

Sales Office
One Research Ct., Ste. 325
Rockville MD 20850
301-208-7150