

APL64 2026.0.4 Update

Table of Contents

Overview	3
Interpreter Improvements.....	3
New ☐ HTLC and ☐ HTLS: APL64 as Client and Server	3
New ☐ WSC system function	3
New ☐ JS: Use JavaScript in an APL64 function.....	3
New Example: Use APL64 in html/JavaScript Web Pages.....	3
New ☐ PY: Use Python in an APL64 function	3
New Example: How to Use APL64 within a Python Script	3
New ☐ CRC system function	3
New ☐ DEMOTE system function	3
Improved Performance: ☐ SS, ☐ WORDREPL, ☐ TEXTREPL, Index Assignment.....	4
Improved ☐ EDSS and ☐ JEDSS.....	4
Improved ☐ LJUST, ☐ RJUST and ☐ SSTOMAT system functions.....	4
Improved ☐ SQLx System Functions.....	4
Improved ☐ MATRIFY now supports a singleton character argument.....	4
Improved ☐ CSE: Stack Trace information suppressed in ☐ CSE error messages.....	4
Improved Control Statement :ENDTRYALL immediately followed by :IF	4
Improved ☐ ROWFIND compatibility with APL+Win ROWFIND assembler function	4
Improved ☐ DR Supports empty text	4
Improved Dyadic Iota.....	5
Improved ☐ NA.....	5
Improved ☐ EVAL	5
APL64 Developer Version GUI Modifications	5
Improved Options Colors Dialog	5
Improved APL Font Support: APL387 Font is installed with APL64 Developer version	7
Improved Debug Pane: Stop is now the last line	7
Improved Printing of a Function Editor	7
Improved WRE and CPC Creation Utility.....	7
Improved ☐ JOUT User Command.....	8

Improved APL64 Developer Version Installer 8

Overview

This document describes the improvements in this APL64 2026.0.4 Update. Enjoy the new APL64 features. Thanks to the APL64 programmers who provide valuable feedback to the APL64 development team.

Interpreter Improvements

New [□HTLC](#) and [□HTLS](#): APL64 as Client and Server

The [□HTLC](#) and [□HTLS](#) system functions support HTTP communication between different instances of APL64, with the added capability to debug the server-side APL64 instance in a visible window.

[□HTLC](#) and [□HTLS](#) can be used as a cross-platform replacement for the Win32-only APL+Win ActiveX Engine.

For further details, refer to the **Help | Developer Version GUI | Using [□HTLC](#) and [□HTLS](#)** menu item.

New [□WSC](#) system function

The [□WSC](#) system function can be used to prepare a plain-text representation of the function content of an APL64 workspace. This representation can be used in a code repository such as GitHub. For further details, refer to the **Help | APL Language | System Functions** menu item.

New [□JS](#): Use JavaScript in an APL64 function

The APL64 [□JS](#) system function is an interface to the JavaScript programming language. For further details, refer to **Help | APL Language | Using [□JS](#)** menu item.

New Example: Use APL64 in html/JavaScript Web Pages

For an example that illustrates how .Net methods can be used from html/JavaScript web pages, please refer to the **Help | Developer Version GUI | Cross-Platform Component | Cross-platform Component in JavaScript** menu item.

New [□PY](#): Use Python in an APL64 function

The [□PY](#) system function is an interface to the Python programming language. For further details, refer to the **Help | APL Language | Using [□PY](#)** menu item.

New Example: How to Use APL64 within a Python Script

For an example creating the APL64 Cross-platform Component (CPC) using a Python programming language, refer to the **Help | Developer Version GUI | Cross-Platform Component | Cross-platform Component in Python Program** menu item.

New [□CRC](#) system function

This system function computes the CRC-32 of the array. For further details, refer to the **Help | APL Language | System Functions** menu item.

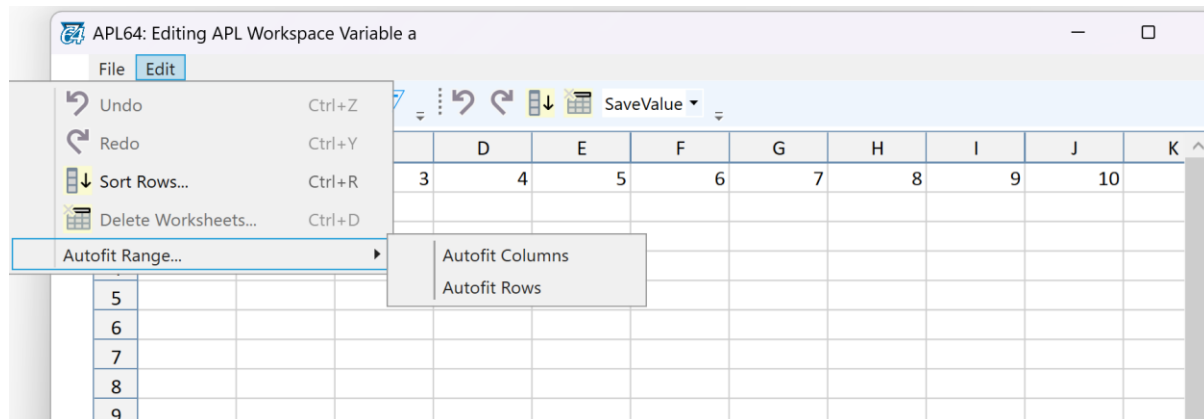
New [□DEMOTE](#) system function

This system function demotes any array to its most compact representation. For further details, refer to the **Help | APL Language | System Functions** menu item.

Improved Performance: `⎕SS`, `⎕WORDREPL`, `⎕TEXTREPL`, Index Assignment
These APL64 interpreter features have improved performance.

Improved `⎕EDSS` and `)EDSS`

- New Autofit Columns and Autofit Rows actions implemented.
- Printing of wide columns in an EDSS editor is improved.



Improved `⎕LJUST`, `⎕RJUST` and `⎕SSTOMAT` system functions

These functions do not return a DOMAIN ERROR exception for right arguments that don't apply to these functions. Instead, appropriate right arguments are processed normally, and inappropriate right arguments are passed through without modification.

Improved `⎕SQLx` System Functions

- The new GetRecords action will return a matrix of the requested number of records from the record set, up to the number of remaining records which have not already been read from the record set.
- A new example shows how to write an SQL Delete or Select query with multiple lines and include comments. Refer to the **Help | APL Language | SQL System Functions | Sql Delete and Select Scripts** menu item

Improved `⎕MATRIFY` now supports a singleton character argument

For example, `⎕MATRIFY 'a'` is now supported.

Improved `⎕CSE`: Stack Trace information suppressed in `⎕CSE` error messages

The Stack Trace information applies only to the APL64 development team.

Improved Control Statement `:ENDTRYALL` immediately followed by `:IF`

An OUTER SYNTAX ERROR is avoided when the `:if` statement immediately followed the `:endtryall` statement in the function editor

Improved `⎕ROWFIND` compatibility with APL+Win `ROWFIND` assembler function

`(3 2p'aa cc') ⎕rowfind 1 0p' '` now returns 2 instead of 0

Improved `⎕DR` Supports empty text

A system error is avoided when `'inflate' ⎕DR ''` is executed.

Improved Dyadic Iota

A potential Rank Error is avoided for `IArg t"1`.

Improved `⊖NA`

`⊖NA` functions saved in APL+Win workspaces will now run in APL64.

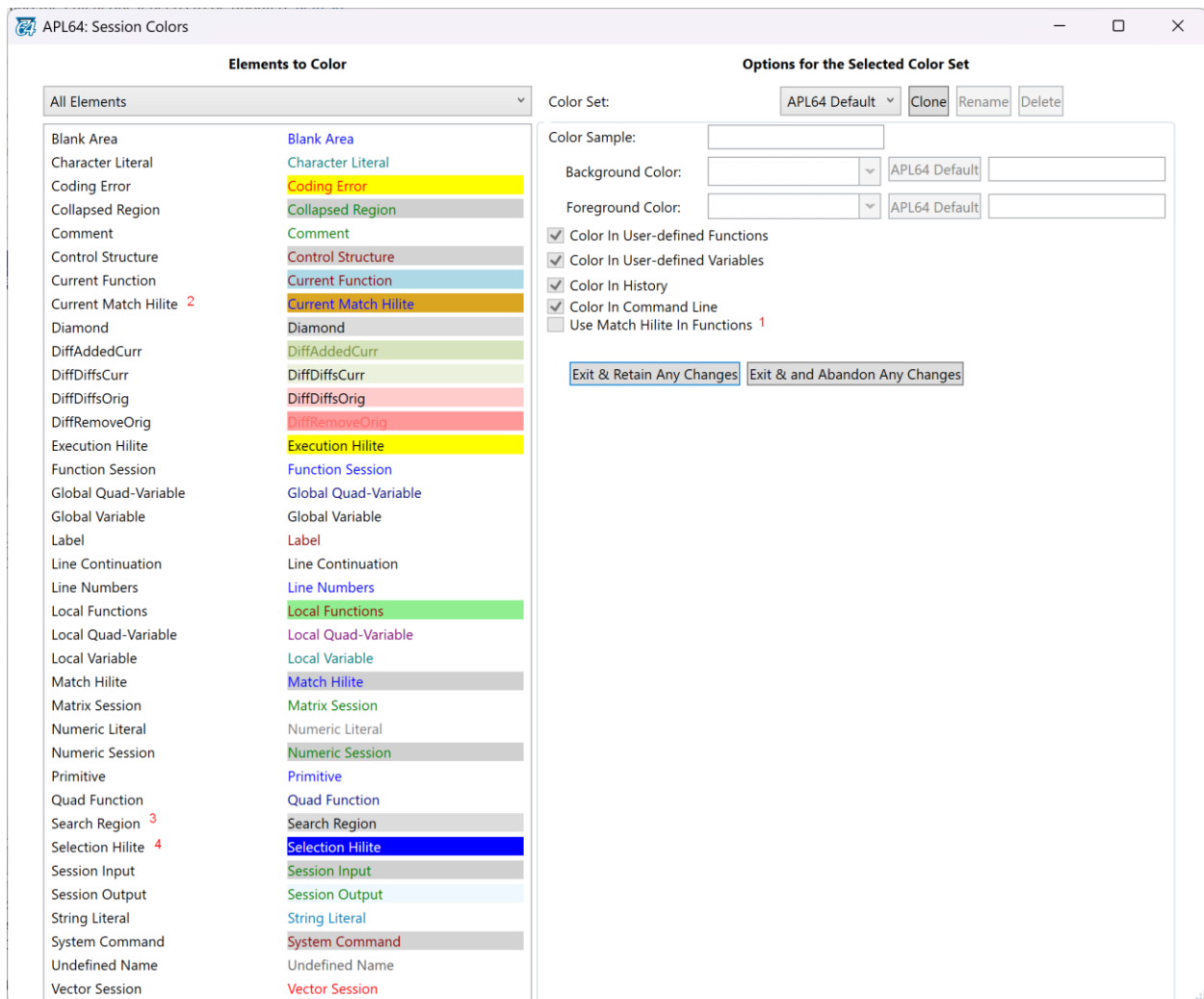
Improved `⊖EVAL`

`⊖EVAL '2147490000 (2147490000)'` result has been corrected

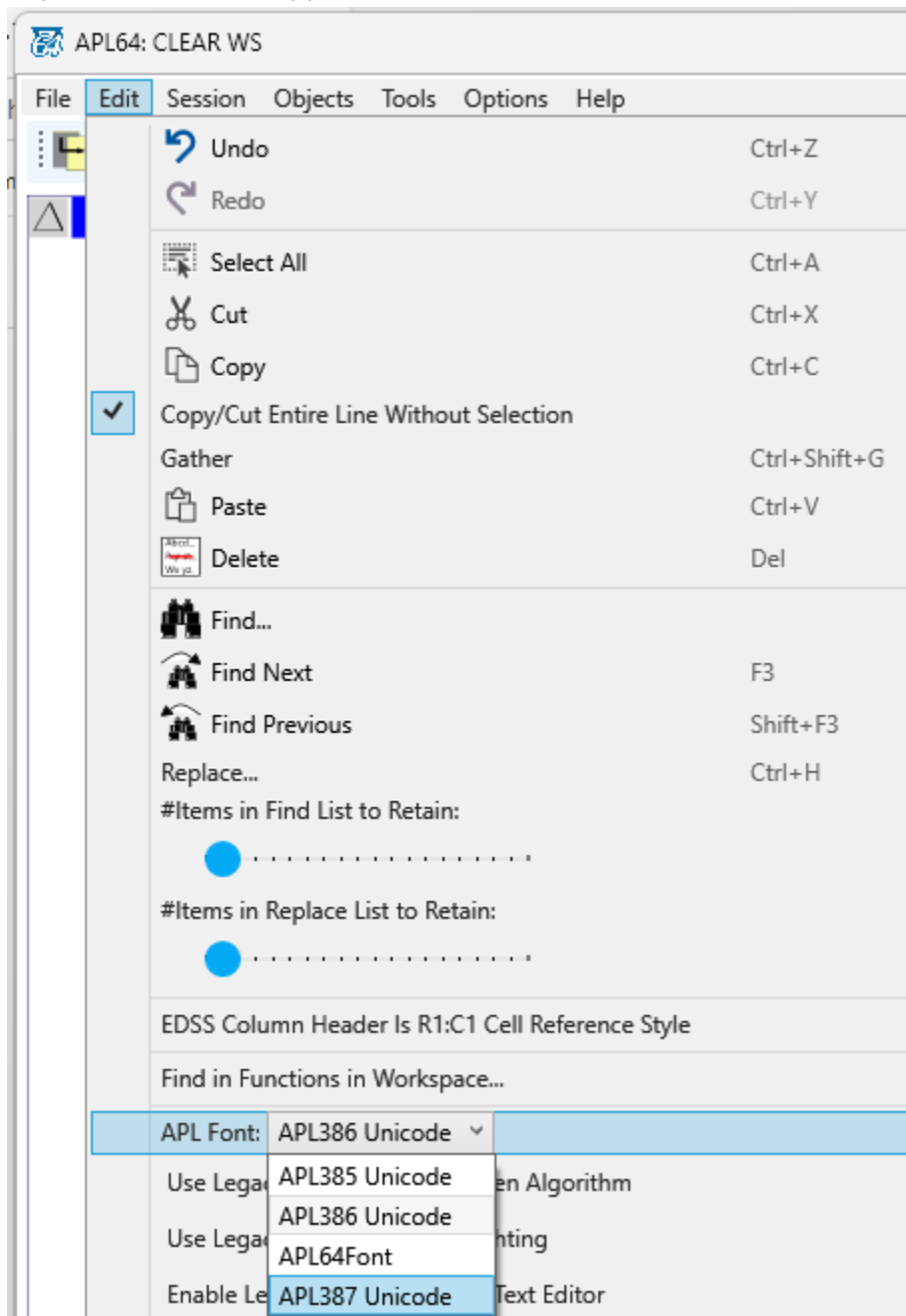
APL64 Developer Version GUI Modifications

Improved Options | Colors Dialog

- The Elements to Color area is taller to view the entire list of elements.
- The checkbox 'Use Match Hilite in Functions' has been added to the Color Set section in the Session Colors tool. This parameter controls the syntax highlighting of matching elements in the function editor. The default value is false. When this setting is enabled, the Match Hilite color element will be in effect. Note: The behavior is now the same as in APL+Win.
- The 'Current Match Hilite' color element is used to color text matching the text in the Find textbox of the Search/Replace window.
- The 'Search Region' color element was improved to use the selected region in the search scope.
- The new 'Selection Hilite' color element sets the background and foreground colors of user-selected text in the Find textbox of the Search/Replace window.



Improved APL Font Support: APL387 Font is installed with APL64 Developer version



Improved Debug Pane: Stop is now the last line

A stop set on a line is now the last visible line (at bottom) displayed in the Debug pane

Improved Printing of a Function Editor

A potential exception is avoided when printing a function saved in the APL64 January 2026 version.

Improved WRE and CPC Creation Utility

Typo “ujcommitted” fixed in the WRE creation message text

Improved]OUT User Command

The]out user command now supports empty elements.

Improved APL64 Developer Version Installer

APL64 has been upgraded to .Net 10 SDK version 10.0.300 which must be installed when APL64 is installed.