

Rendering Large Output to History

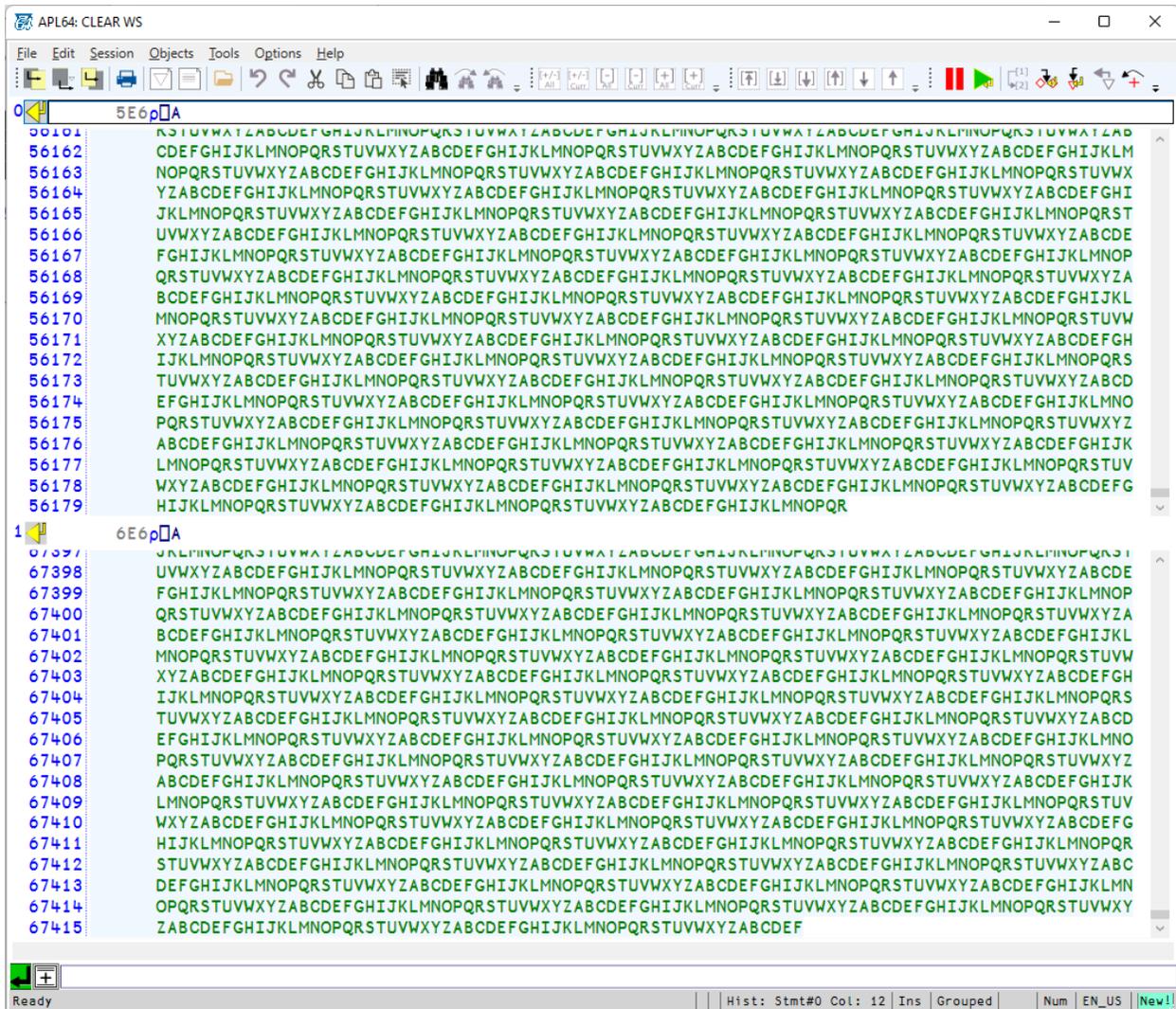
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Overview

Very large variable sizes are possible in APL64, but formatting the values and rendering these values to the history pane may not be useful.

For example, 5E6ρ□A and 6E6ρ□A took 15 seconds and 19 seconds respectively on the same workstation to format 11,000,000 rows of data and using the grouped history format to render approximately 36 of those rows to the history pane. To render all 11,000,000 rows of data using the classic history format would take much more time.



A more practical approach is to assign the values to an APL64 variable and use the numerous APL features to reduce the data to format and render to the history pane in a form conducive to human analysis.

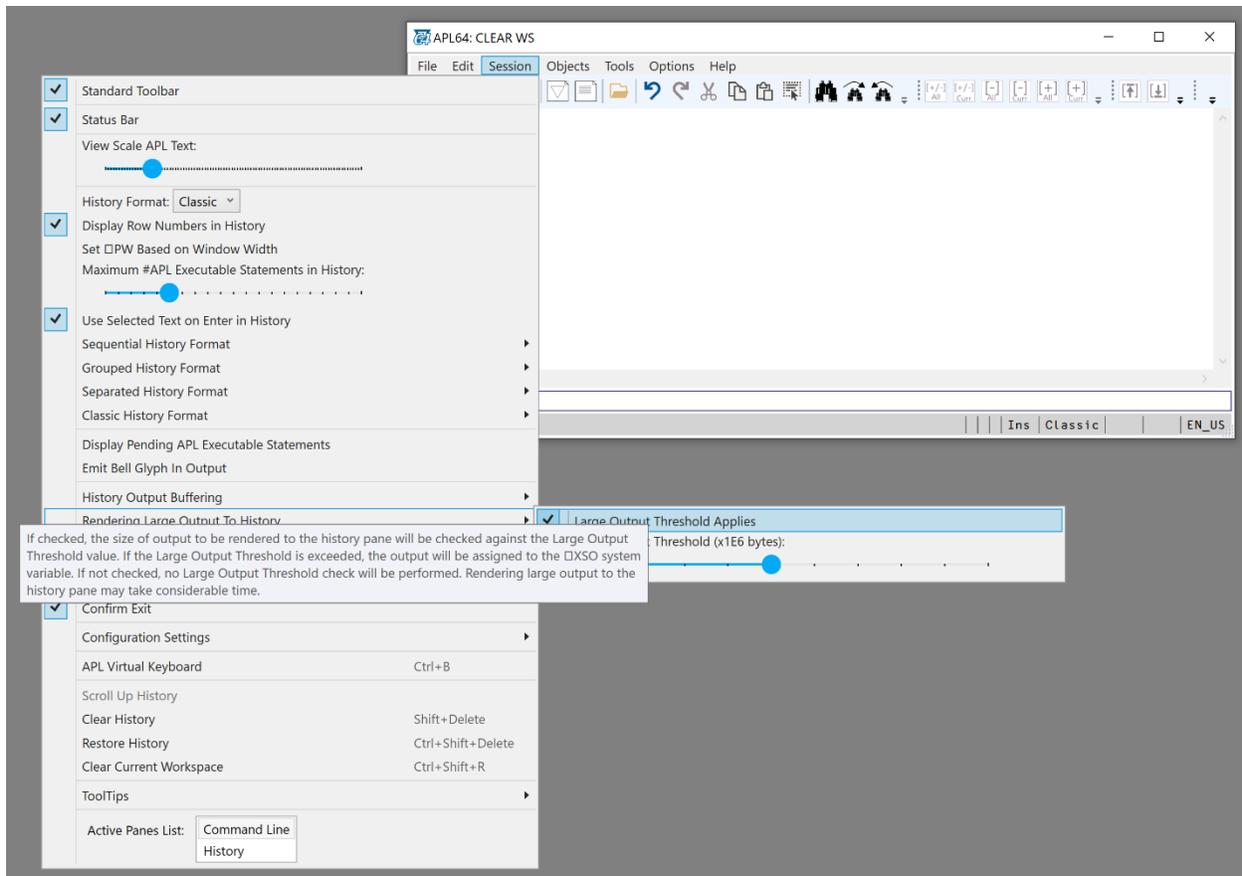
Rendering Large Output to History Options

It is easy to forget that the data being prepared in APL64 would take considerable time to format and render to the history pane. If desired, to avoid such a delay, the APL64 Developer version user can take advantage of the Session | Rendering Large Output to History menu options.

The Rendering Large Output to History options do not apply to the APL64 runtime versions and do not affect the operation of the FMT or primitive format (ϕ) features of APL64.

Large Output Threshold Applies

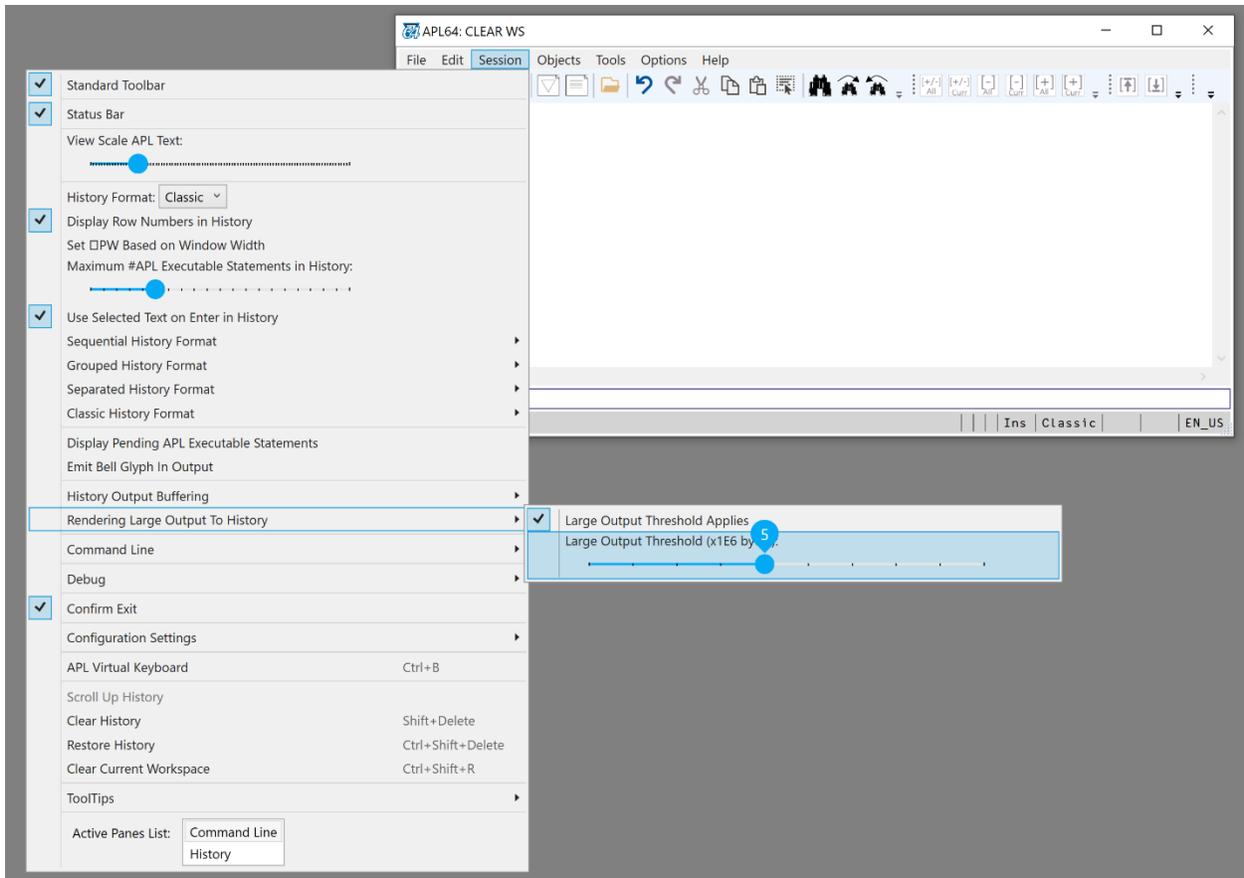
This check box is available to enable/disable the use of the large output threshold:



Large Output Threshold (x 1E6 bytes)

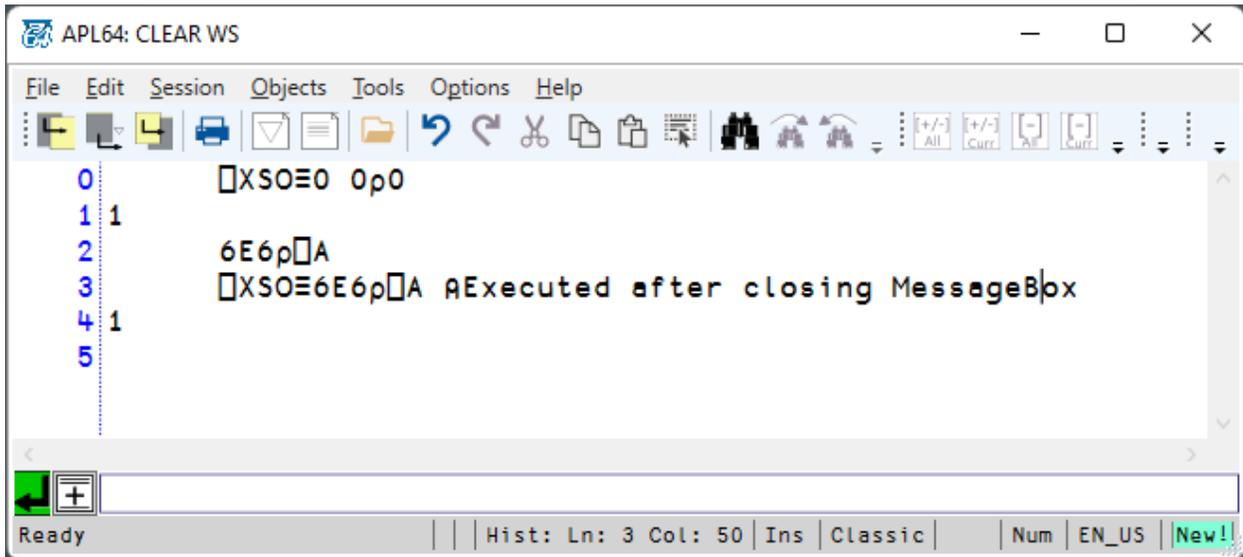
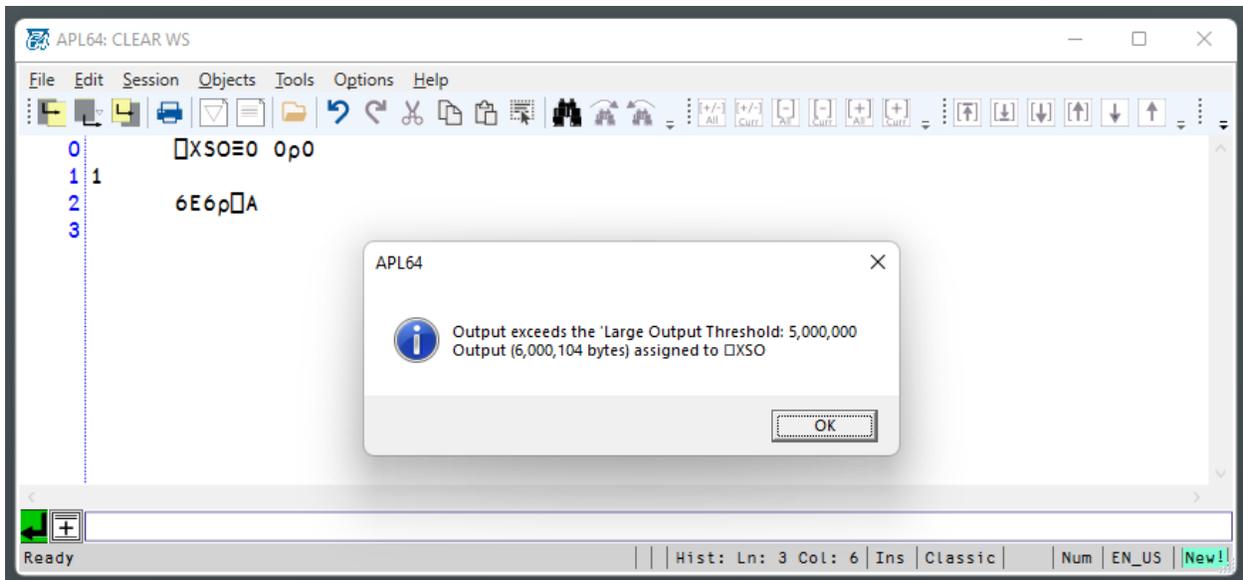
When the **Session | Rendering Large Output To History | Large Output Threshold Applies** is checked, the **Session | Rendering Large Output To History | Large Output Threshold** value, in units of 1E6 bytes, will be used. If the size of the output to be formatted and rendered to the history pane exceeds the Large Output Threshold:

- A message will be presented indicating that the Large Output Threshold has been exceeded
- The output, prior to formatting, will be assigned to the APL64 XSO system variable

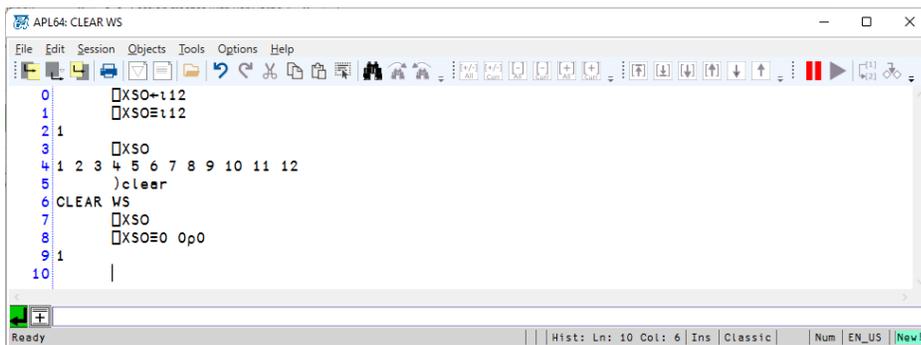


□ XSO System Variable

The □ XSO system variable has a default value of 0 0p0. If the APL64 programmer has checked the **Session | Rendering Large Output To History | Large Output Threshold Applies** and attempts to format and render large output, of size greater than the APL64 programmer-specified **Session | Rendering Large Output To History | Large Output Threshold**, to the history pane the value of the large output, prior to formatting will be assigned to the □ XSO system variable.



□XSO is reset to its default value when the current workspace is cleared



□XSO is not saved when the workspace is saved

□ XSO can be localized in an APL programmer-defined function:

