

OBSOLETE FUNCTIONS

'oldbesseli', 'oldbesselj', 'oldbesselk' and 'oldbessely' are obsolete, please use 'besseli', 'besselj', 'besselk' and 'bessely' instead.

HISTORY MANAGER

"// End Session" line removed from the history file.

Begin session line identified by "// -- " and finished by "-- //"

SCINOTES

Add the possibility to restore the last session (thanks to Paul Griffiths).

Add a close-button on the tabs and the possibility to drag&drop them.

Bug fixes:

- ▶ **Bug #6496 fixed** - Add hyperlinks on macros in SciNotes.
- ▶ **Bugs #7462, #7463 fixed** - The editor did not manage files with extensions *.tst, *.start, *.quit.
- ▶ **Bug #7477 fixed** - Bad detection of a function declaration when the line ended with a comment.
- ▶ **Bug #7491 fixed** - Broken lines with a .. were not correctly handled and caused a freeze of SciNotes.
- ▶ **Bug #7550 fixed** - In SciNotes, the "case" keyword was misplaced in some cases.
- ▶ **Bug #7557 fixed** - SciNotes: unselected line was tabified.
- ▶ **Bug #7558 fixed** - SciNotes: global variables were reached before local ones.
- ▶ **Bug #7564 fixed** - In SciNotes, no message was displayed when an unsuccessful search occurred.
- ▶ **Bug #7586 fixed** - ShortCut for 'Save' action was missing in SciNotes.
- ▶ **Bug #7590 fixed** - In SciNotes, there was a bad organization of "Split..." and "Line Numbering..." menus.
- ▶ **Bug #7595 fixed** - In SciNotes, a string was broken if '!' was encountered.

FILE INPUT / OUTPUT

Rewrite 'mputl' as a built-in function for speed improvements.

WINDOW MANAGEMENT

If a subwindow is not docked, it is not possible to close a subwindow with its own "cross" anymore.

Bug fixes:

- ▶ **Bugs #7572, #5519 fixed** - The cross in the dockbar was confusing when a window was not docked.

EDITVAR / BROWSEVAR

Bug fixes:

- ▶ **Bug #7328 fixed** - editvar() window title did not contain the name of the edited variable.
- ▶ **Bug #7329 fixed** - If editvar() window was docked, calling editvar another time threw java exceptions and froze editvar().
- ▶ **Bug #7330 fixed** - browsevar() called editvar() even if the latter did not handle the variable type.
- ▶ **Bug #7332 fixed** - browsevar(): When checked booleans were hidden and unchecked booleans were displayed, the "boolean" menu was reversed.
- ▶ **Bug #7333 fixed** - browsevar(): The type of global variables had weird values.
- ▶ **Bug #7334 fixed** - browsevar(): Some columns had wrong names.
- ▶ **Bug #7337 fixed** - browsevar(): Some types could not be filtered (Scilab intrinsic, Matlab sparse and implicit polynomial).
- ▶ **Bug #7343 fixed** - editvar could not edit empty matrices.

Xcos

Bug fixes:

- ▶ **Bug #6968 fixed** - Modelica Chaos Xcos demo was not simulating.
- ▶ **Bug #7372 fixed** - No message was displayed in the Xcos info bar during the first drag and drop of a block (it may take time).
- ▶ **Bug #7396 fixed** - On I/O blocks used in SuperBlocks, empty index threw a decoding exception.
- ▶ **Bug #7480 fixed** - Xcos conditional compilation produced a too long script on Scilab queue.
- ▶ **Bug #7483 fixed** - A wrong id block could lead to unopenable files.
- ▶ **Bug #7520 fixed** - The Xcos context was not translated from parent diagram to child one.
- ▶ **Bug #7529 fixed** - Using the Xcos block help from the palette froze Scilab.
- ▶ **Bug #7530 fixed** - When connecting two links together in a superblock, the split block was not correctly positioned.
- ▶ **Bug #7532 fixed** - Old Scicos diagrams without diagram version numbers could not be opened.
- ▶ **Bug #7533 fixed** - On Xcos, it was possible to drop a block into another one.
- ▶ **Bug #7534 fixed** - On a RegionToSuperBlock action, the exported block parent field were not updated with the new parent diagram.
- ▶ **Bug #7540 fixed** - Xcos did not well serialized ScilabInteger types. This problem produced bugs on the LOGIC and BITSET blocks.
- ▶ **Bug #7551 fixed** - An Xcos block could not change the type of a port when it was already present.
- ▶ **Bug #7571 fixed** - The mirror state of a block was not saved on a diagram.
- ▶ **Bug #7574 fixed** - The Xcos diagram configuration settings did not work with exponential values.

► **Bug #7588 fixed** - When Xcos palettes had been installed in Scilab, they were not removed at the end of the session.

COMPILATION

Fix "warning: deprecated conversion from string constant to 'char'" message when compiling a toolbox using Scierror(...) and sciprint(...)

Bug Fixes:

- **Bug #3842 fixed** - "native" and "double" evaluation modes added to the sum, cumsum, prod and cumprod functions. For more information, see the SEP #46.
- **Bug #4370 fixed** - Help page for alufunction and figure_properties were not up-to-date and the help page for pixel_drawing_mode was missing.
- **Bug #5185 fixed** - It was not possible to edit the name of a super block.
- **Bug #5366 fixed** - Help of modules_manager was not built.
- **Bug #6639 fixed** - "hypermat" did not remove the higher dimensions equal to 1.
- **Bug #6849 fixed** - add_profiling badly handled "else" which made plotprofile function produced an incorrect report.
- **Bug #7121 fixed** - Help file about saveafterncommands(0) updated.
- **Bug #7124 fixed** - mputl returned a wrong error message if a file did not exist.
- **Bug #7158 fixed** - Help chapter on texmacs was empty.
- **Bug #7182 fixed** - Help file of link about the output argument updated.
- **Bug #7183 fixed** - Help file of ulink about the input argument updated.
- **Bug #7228 fixed** - Help file of strcat about the third input argument updated.
- **Bug #7282 fixed** - eval failed on some functions without output arguments.
- **Bug #7286 fixed** - On some platforms, eps export of NaN values was buggy.
- **Bug #7371 fixed** - Documentation about cell did not precise that the value returned by A.dims could not be used as a subscript.
- **Bug #7374 fixed** - If Scilab was launched via another Scilab, TMPDIR was badly built.
- **Bug #7388 fixed** - A java exception was thrown when we clicked on a menu created using uimenu because this menu had no child.
- **Bug #7391 fixed** - Links added between help files on evstr, eval, execstr.
- **Bug #7437 fixed** - If history file was invalid, history browser crashed.
- **Bug #7441 fixed** - The history browser crashed if the language was changed.
- **Bug #7443 fixed** - The number of arguments of the "title", "xlabel", "ylabel" and "zlabel" macros were incorrectly checked.
- **Bug #7457 fixed** - Under GNU/Linux and Mac OS, the datatip mode icon was missing in the graphic windows toolbar.

- **Bug #7459 fixed** - Character issues fixed on some Japanese systems.
- **Bug #7481 fixed** - 6th input argument of ilib_for_link did not allow to set library name on Windows.
- **Bug #7505 fixed** - Last optional parameter of "legend" macros was not read.
- **Bug #7507 fixed** - There were some issues in the pvm module error messages which made translation difficult.
- **Bug #7508 fixed** - There was a wrong error message in gmres function.
- **Bug #7514 fixed** - Some demo files were broken due to changes in x_mdialog function.
- **Bug #7566 fixed** - The cacs module graphic functions (bode, black, nyquist,...) did not preserve the immediate_drawing property value.
- **Bug #7568 fixed** - In the completion window, an exception was thrown when an item was selected.
- **Bug #7594 fixed** - Undefined variable error was not properly handled since Bug #6781 fix.