

SCILAB

Some long-standing usability bugs have been fixed in this release.

Contributions from the Scilab team have been done on the flexdock project to fix these issues.

Bug Fixes:

- ▶ **Bug #1589, #3994 fixed** - On Startup, Scilab console did not have the focus. The user had to click in the main window to gain focus.
- ▶ **Bug #3614 fixed** - Sub-applications could not have their own icons. This problem was causing some issues with the "Alt-Tab" features under some operating systems.
- ▶ **Bug #4247 fixed** - The command `xclick` didn't work correctly.
- ▶ **Bug #4423 fixed** - It was not possible to navigate in Scilab's menu with arrow keys.
- ▶ **Bug #5708 fixed** - A focus problem between the console and the editor happened when SciNotes was started from the console.
- ▶ **Bug #7369 fixed** - `fun2string` produced incorrect code for parenthesis exponentiation expressions.
- ▶ **Bug #7625 fixed** - Some selection issues were appearing from time to time when Scilab was losing the focus.
- ▶ `'whos'` function updated, variables sorted by name (case insensitive). If a variable is global, a * appears after his type name. (Thanks to Samuel Gougeon).

SCI NOTES

Anchors can be added in the source code and one can navigate between them with the Code Navigator.

Bug Fixes:

- ▶ **Bugs #7276, #7726 fixed** - There was a highlighting problem with default font.
- ▶ **Bug #7554 fixed** - Auto-completion on typing was too general.
- ▶ **Bug #7618 fixed** - The color background change generated an exception.
- ▶ **Bug #7621 fixed** - The font change generated an exception.
- ▶ **Bug #7623 fixed** - "Evaluate Selection" evaluated the selection with one added char.
- ▶ **Bug #7673 fixed** - The extension ".dem" was not available in Open or Save actions.
- ▶ **Bug #7676 fixed** - The SaveAs action did not remove "readonly" mode.
- ▶ **Bug #7677 fixed** - User could not open files in his favorite directories.
- ▶ **Bug #7678 fixed** - Help action did not give help on selection.
- ▶ **Bug #7682 fixed** - The knob of the vertical scrollbar moved badly on resize.
- ▶ **Bug #7718 fixed** - There was a bad detection of a function when the list of args was broken.

- ▶ **Bug #7719 fixed** - It was not possible to open several files at the same time through the file chooser.
- ▶ **Bug #7719 fixed** - It was not possible to open several files at the same time.
- ▶ **Bug #7722 fixed** - Several FindReplace windows could be opened.
- ▶ **Bug #7731 fixed** - In Find/Replace window, buttons were not updated when an item was chosen in the combobox Find.
- ▶ **Bug #7746 fixed** - File streams were not closed. This problem was causing some issues under Windows.
- ▶ **Bug #7759 fixed** - Several Code Navigator instances were possible.
- ▶ **Bug #7764 fixed** - The CR in comments was removed when executing from SciNotes.
- ▶ **Bug #7774 fixed** - The default tabulation was `\t`.
- ▶ **Bug #7801 fixed** - The FindReplace window could not be cancelled with ESC.
- ▶ **Bug #7807 fixed** - The SaveAs or Save actions emitted an error message when cancelled.
- ▶ **Bug #7808 fixed** - The RestoreSession window could not be cancelled with ESC.
- ▶ **Bug #7830 fixed** - There was a problem when opening a file at a line number.
- ▶ **Bug #7842 fixed** - There was not the filepath in the title bar.

EDITVAR/BROWSEVAR

Bug Fixes:

- ▶ **Bug #7324 fixed** - `editvar()` did not work for string variables.
- ▶ **Bug #7610 fixed** - `browsevar()`: The icons (left column) did not appear in the binary version (Linux & MacOSX).
- ▶ **Bug #7617 fixed** - `editvar()` window did not have any menu bar.
- ▶ **Bug #7627 fixed** - When `browsevar()` window was docked, if `browsevar()` was called again, an empty window popped up and could not be closed.
- ▶ **Bug #7629 fixed** - `browsevar()`: Trying to edit a variable that no more exists generated an error.

COMPILATION

- ▶ `-fwritable-strings` C argument removed for all architectures under Linux (was causing some build issues under sparc, alpha and powerpc)
- ▶ A problem on startup with GNU/Linux sparc has been fixed.
- ▶ The Java "user.home" property has been set to `SCIHOME`.
- ▶ **Bug #7668 fixed** - Scilab 5.3.0-beta-2 did not build with Visual Studio 2008 Express.
- ▶ Update Lapack to 3.2.2 on Windows (fix bugs #7754, #7485, #6477).
- ▶ Update JLaTeXMath to version 0.9.3

DOCUMENTATION

- ▶ **Bug #7755 fixed** - Some sparse help pages moved from elementary_functions to the sparse chapter.

WINDOWS INSTALLER

- ▶ **Add "Command Line - Minimal Installation (no gui)" Configuration.**
- ▶ **Interpreter in command line without the graphic, java or Tcl/Tk capabilities.**
- ▶ **Installation requires only 60 Mo on disk.**

GRAPHICS

- ▶ **Two additional Graphics demos about plotyy() and plotyy() added. See Bug #7687**
- Thanks to Samuel Gougeon.

Bug Fixes:

- ▶ **Bug #6910 fixed** - The font size in LaTeX labels was too big.
- ▶ **Bug #7137 fixed** - In Text uicontrol, fontsize was rounded which was problematic when fontUnits was 'normalized'.
- ▶ **Bug #7857 fixed** - If an event_handler was previously assigned to a graphic window the datatips toggle tool icon had to be clicked twice to make it active.

Xcos

- ▶ **A new initialization UI for partial differential equations settings has been added.**

Bug Fixes:

- ▶ **Bug #7256 fixed** - Saving a diagram with a non-ASCII filename created a corrupted file on Windows.
- ▶ **Bug #7498 fixed** - SPLIT_f were not always deleted when one of its connection were.
- ▶ **Bug #7622 fixed** - When opening an Xcos diagram done on 5.2.2, an exception could be thrown.
- ▶ **Bug #7628 fixed** - When importing Scicos diagram, type each port as "explicit" when not typed.
- ▶ **Bug #7631 fixed** - On Xcos, using xcosPalAdd modified the user palette.xml file.
- ▶ **Bug #7635 fixed** - Xcos diagram with nested SuperBlocks did not contains a valid container reference.
- ▶ **Bug #7636 fixed** - The SUPER_f internal diagram was not coherent with the block external view.
- ▶ **Bug #7644 fixed** - The last user palette could not be removed from the palette tree.
- ▶ **Bug #7651 fixed** - scicos_math.h was missing in binary package.
- ▶ **Bug #7715 fixed** - Performances of xcosDiagramToHDF5 degraded after several subsequent calls to this function.
- ▶ **Bug #7778 fixed** - The disabled buttons were badly colorized.
- ▶ **Bug #7809 fixed** - The AFFICH_m block settings did not update the block view.
- ▶ **Bug #7834 fixed** - The last argument of xcosPalAddBlock about the block style could not be changed by the user.

- ▶ **Bug #7845 fixed** - Code generation was broken.

CALL_SCILAB

- ▶ in 'API' mode, history manager is disabled.
- ▶ **Bug #7601 fixed** - call_scilab C functions did not check if engine was started.
- ▶ **Bug #7602 fixed** - It was not possible to start/close a Scilab engine at any time.

SCILAB/LABVIEW GATEWAY

- ▶ **Bug #7791 fixed** - It was not possible to restart anymore. VI already started.

BUG FIXES

- ▶ **Bug #4247 fixed** - The command xclick did not work correctly.
- ▶ **Bug #5697 fixed** - External hyperlinks were opened in Help Browser rather than in Web Browser.
- ▶ **Bug #6477 fixed** - in some case, schur returned wrong values on Windows.
- ▶ **Bug #6504 fixed** - Due to a bug in Java, the
 tag was not copied as a CR in a messagebox.
- ▶ **Bug #6938 fixed** - frexp returned a wrong error message with a complex as input argument.
- ▶ **Bug #7125 fixed** - fscanfMat() did not read correctly %inf, -%inf and %nan values respectively recorded by fprintfMat().
- ▶ **Bug #7208 fixed** - The help for atomsGetLoaded() gave the wrong shape for the loaded matrix.
- ▶ **Bug #7348 fixed** - ATOMS: A module was loaded twice if it was installed both in the "user" and the "allusers" section.
- ▶ **Bug #7405 fixed** - The toolbar was not updated when an undocking occurred.
- ▶ **Bug #7452 fixed** - demos nmplot from Optimization and Simulation -> fminsearch -> nmplot* did not work.
- ▶ **Bug #7453 fixed** - newfun() was broken after clearfun().
- ▶ **Bug #7485 fixed** - Division of matrices of complex numbers crashed on Windows.
- ▶ **Bug #7519 fixed** - Help page of getcallbackobject() did not describe input argument.
- ▶ **Bug #7525 fixed** - Scilab failed to assign 2-d matrices into 3-d matrices, on Windows.
- ▶ **Bug #7599 fixed** - Intersci-n and intersci did not create code from a .desc file if it was not ended by an empty line.
- ▶ **Bug #7603 fixed** - Fortran code generated by intersci did not build with a fortran or F2C compiler on Windows.
- ▶ **Bug #7611 fixed** - The cross to close a subwindow and the little arrow to undock were not visible even if the subwindow was docked.
- ▶ **Bug #7615 fixed** - When opening a SuperBlock, a non-blocking exception could be thrown.
- ▶ **Bug #7616 fixed** - fullfile did not work with only one input argument.
- ▶ **Bug #7619 fixed** - get_function_path did not return all available paths.
- ▶ **Bug #7620 fixed** - The Optimization and Simulation/Optimisation/Plot demo did not plot anything.
- ▶ **Bug #7661 fixed** - Add some usage examples for the function 'warning'.

- ▶ **Bug #7681 fixed** - help_from_sci failed to process tabulated .sci files.
- ▶ **Bug #7685 fixed** - Demo Graphics => More surfaces => Sphere did not appear as spherical.
- ▶ **Bug #7688 fixed** - set("color_map", hsvcolormap(128)) produced a EXCEPTION_STACK_OVERFLOW.
- ▶ **Bug #7693 fixed** - With a corrupted palettes.xml file, the error message was not coherent with the recovering action.
- ▶ **Bug #7703 fixed** - 'coding_ga_identity' help contained false "See Also".
- ▶ **Bug #7704 fixed** - 'init_ga_default' help did not inform the default values of the optional parameters.
- ▶ **Bug #7706 fixed** - example in the 'optim_ga' help page did not work.
- ▶ **Bug #7733 fixed** - strstr crashed scilab if the second input argument was longer than the first one.
- ▶ **Bug #7737 fixed** - Part 1 - ATOMS: when installing a module, the archive was automatically downloaded before checking if the archive already existed in the archive directory.
- ▶ **Bug #7740 fixed** - edit() with a Scilab macro redefined failed.
- ▶ **Bug #7747 fixed** - xclick(): When the graphic window was docked, keyboard events were not detected.
- ▶ **Bug #7751 fixed** - justify() did not work correctly if the subject embedded leading or trailing spaces.
- ▶ **Bug #7754 fixed** - umfpack did not work with Scilab 5.3.0-beta-2 on Windows.
- ▶ **Bug #7756 fixed** - sprand did not produce normal numbers.
- ▶ **Bug #7766 fixed** - cdf, cdfnc functions did not display %inf in error messages
- ▶ **Bug #7775 fixed** - ged action 6 (selection and move of a graphic entity) was broken.
- ▶ **Bug #7802 fixed** - the graduate function complained about obsolete maxi and mini functions.
- ▶ **Bug #7803 fixed** - edit edit failed.
- ▶ **Bug #7821 fixed** - In a messagebox, an exception was thrown when clicking on a mal-formed url.
- ▶ **Bug #7831 fixed** - Some reference of the old editvar UI were present in the source directory tree.
- ▶ **Bug #7840 fixed** - big lines were splitted by mgetl.