Scilab 5.5.2 - Release Notes
1 April 2015

32/64-bit Linux, Mac OS X, 32/64-bit Windows

This document details new features, changes, bug fixes and improvements found in Scilab 5.5.2 release.
Scilab 5.5.2 is available for download at: http://www.scilab.org/download

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What's new

Scilab 5.5.2 is a minor release which solves in particular two serious bugs:

 ◗ Scilab failed to start under some Windows platforms due to an ATOMS internal libraries loading issue.
 See Bug #12842.
 ◗ All graphics were displayed in red under some Windows platforms.
 See Bug #12788.

This release also includes new graphics features such as the improvement of `fec` function to enable the rendering of meshes based on any convex polygon type (not only triangles).

Graphics Evolutions

`fec` function can now plot meshes based on any convex polygon type (not only triangles).

New datatips positions are now available: "left", "right", "upper", "lower".

New `contour2dm` function.

Toolbox Skeleton

Modelica user-defined block has been added to `xcos_toolbox_skeleton.`

Removed Functions

Removed Function	New Function
`%asn`	`delip`
`chart`	`nicholschart`
`IsAScalar`	`isscalar`
`jmat`	`flipdim`
`mfft`	`fft`
`milk_drop`	
`msd`	`stdev`
`nfreq`	`tabul`
`pcg`	`conjgrad`
`regress`	`reglin`
`relocate_handle`	
`st_deviation`	`stdev`
`xmltochm`	

Removed Function	New Function
`xsetm`	`ged`

Compilation

Required version of JOGL updated to 2.2.4.
 See Bugs #12788 & #13586.

Known incompatibilities

Undocumented use of `exec` with `"errcatch"` as third input argument now returns an error:
 `exec(path, mode, 'errcatch')` must be replaced by `exec(path, 'errcatch', mode)`

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Scilab Bug Fixes

Bug	Description
#8066	There was no OK button in `x_choose` window.
#9890	`xarrows` demonstration was added to Graphics/Basic functions category.
#12788	All graphics were displayed in red under some platforms.
#12842	Scilab could not be launched under some platforms (ATOMS internal library loading problem).
#13372	`xsetm` should have been removed in Scilab 5.5.0.
#13437	axis drawn by `drawaxis` used different font than those drawn by `plot`.
#13462	Low level functions modified bounds even with `auto_scale="off"`.
#13494	Wrong vertical range of `plot3d` and `plot3d1` fixed.
#13531	`sylv` help page fixed to include the real Sylvester equation.
#13549	Slider uicontrols triggered three callbacks instead of one.
#13551	Marks with null size were not correctly exported in vectorial formats.
#13586	Scilab compilation failed with recent versions of JoGL package.
#13605	`harmean` returned an inverted result when called with parameters `"r"` or `"c"`.
#13608	`ogm` produced an error with complex values.
#13619	`xstringl` returned wrong first point.
#13640	Graphics in isoview mode were too small when they were in subplots.
#13673	Anti-aliasing of `xpoly` marks had not a proper render.
#13674	User .wgetrc configuration file is now by-passed when ATOMS does not use a proxy.
#13676	An invisible figure could not be exported.
#13677	Indentation of examples in `assert_checkerror` help page was not correct.
#13679	There were invalid subticks in log scale after a copy.
#13681	Calling `cdfnor` to get the X vector could produced a vector with some `NaN` values.
#13684	SciNotes editor component did not fill all the window content pane when wrap-lines option was set to false.
#13685	LaTeX was not detected when specified in `ticks_format`.
#13689	There were errors in reading `enum` from hdf5 files.
#13690	`tight_limits` property can now manage X, Y and Z axes separately.
#13692	`group` returned an error for a discrete dynamical system with a specified sample time.
#13694	Calling `wfir` without input arguments produced an error instead of calling `wfir_gui`.
#13695	Scilab used bash-specific features in scripts.
#13702	Problems with * prefix for modified files in SciNotes fixed.

Bug	Description
#13706	`plot3d([1 1 1])` randomly crashed.
#13712	Details added in `strcat` help page for `strcat(strings, "", "r")` case.
#13721	Writing in a file opened in r+ mode was not possible.
#13723	It was not possible to insert a single double in `double[][]`.
#13725	Polyline was not correctly filled with big values.
#13731	`xmlDelete` could be very slow.
#13733	`fmt` could not be used as a singular optional argument in `colorbar`.
#13735	There was no check of frameflag value in `plot2d`.
#13741	An invisible figure could not be printed under Windows.
#13742	Figure was not well-printed when there was a `xstring` with LaTeX.
#13752	The 'Supported compilers' page was outdated.
#13758	`x_mdialog` interpreted 'F' and 'T' as boolean values whereas it should have interpreted `'%F'` and `'%T'` instead.
#13766	Setting `figure_size` property led to wrong display and figure properties values.
#13772	Xcos GUI was not locked while setting parameters.
#13791	`ricc` no longer managed the `'invf'` method.

All bugs description and fix can be found online at http://www.bugzilla.scilab.org/*bugnumber*.