

Change Log for LTPDA Toolbox v2.0rc1

M Hewitson 03-02-09

Introduction

This version of LTPDA is the first release candidate for V2.0.

This is mostly bug fixing and performance improvement since the last release, but there are also some new features, most notably a new graphical programming environment for developing and executing data analysis pipelines. This new tool is called **LTPDAworkbench** and can be launched from the launchbay. The main changes are listed below. Detailed changes follow.

Main Changes

- 1) New data whitening methods are included, **ao/whiten1D** and **ao/whiten2D**.
- 2) Most methods of the AO class should now support multiple outputs, in addition to the vector output. For example, the following are supported:
 - 1) **a = lpsd(b1,b2,b3)**
 - 2) **[a1,a2,a3] = lpsd(b1,b2,b3)**
- 3) Model fitting tools:
 - 1) **curvefit** for doing non-linear least-squares, now including weights
 - 2) **lscov** for doing linear least-squares fitting
 - 3) **straightLineFit** is a wrapper of **lscov** for fitting data with a straight-line
- 4) Operators, **+-./.***, all conform to more standard MATLAB type behaviour. For example, adding a single AO to a vector of AOs results in a vector of AOs where the single AO is added to each element of the vector.
- 5) Digital filtering with IIR filters now has two possible ways of applying a bank of filters. By specifying the '**bank**' parameter, the filters will be applied as a '**serial**' bank or a '**parallel**' bank.
- 6) Two new noise-generators are included, **noisegen1D** and **noisegen2D** (which can produce correlated data streams).
- 7) AOs can now be built from a set of built-in models. Users can also write their own models and point LTPDA to a directory (or more than one) containing those model files.
- 8) The user preferences of LTPDA are now controlled via a graphical user interface. To adjust the user preferences, run **LTPDAprefs**.
- 9) Two new transfer function representations are present as user classes of this version of the toolbox. The class **parfrac** allows the user to build transfer function models that are a series of partial fractions; the class **rational** allows the user to build a transfer function as a rational polynomial in s. Some converters also exist to go between these and the existing transfer function models, **pzmodel** (pole/zero models), **miir** (IIR filters) and **ssm** (state-space models).
- 10) A new method, **ao/heterodyne**, to heterodyne data at a given frequency.

- 11) All transfer function representations and digital filters now can be assigned input and output units. This means that units are now propagated through fully through any analysis.
- 12) A new **rebuild** method to rebuild objects from their self-contained history trees.
- 13) New graphical user interfaces
 - 1) **modelViewer** - a viewer for the built-in ao and ssm models
 - 2) **constructor** - a helper for writing object constructors (rewritten)
- 14) New convenient AO methods to apply gain and to add an offset to data (**scale**, **offset**).
- 15) Transfer function estimators now return error terms in the **procinfo** field of the result **ao**.
- 16) Units are not automatically simplified. Instead the user can now do that on demand with the **simplifyUnits** method. There are also methods to convert between Hz and s: **HzToS** and **sToHz**.
- 17) Digital IIR filters are now initialised to a state based on the input data. This should reduce start-up transients.
- 18) Data in AOs can be converted from one type to another using the new **ao/convert** method.
- 19) Pole/zero models (**pzmodel**) now support a delay parameter.

Details changes since v1.9.2

2009-02-03 19:18 hewitson

- * @LTPDAworkbench/cb_launchRepogui.m: Hopefully the last thing from the repogui renaming.

2009-02-03 17:36 ingo

- * @plist/pset.m: Bug fix: copy the parameter object which we add to the PLIST object.

2009-02-03 16:15 mauro

- * @ao/ao.m: Made the binary retrieval default option. UTP relevant?

2009-02-03 16:05 hewitson

- * @ao/filter.m: Added units to the mfir filtering.

2009-02-03 15:42 hewitson

- * +utils/@mysql/logindlg.m: Make font size more suited to us older chaps.

2009-02-03 15:41 hewitson

- * @ltpda_uo/: bsubmit.m, submit.m: The temporary saving to file for

the binary submission is no longer included in the history.

2009-02-03 15:31 hewitson

- * @ltpda_uo/save.m, @ltpda_uoh/save.m: Slightly modified and more efficient saving.

2009-02-03 13:02 hewitson

- * @ltpda_uo/bsubmit.m: A new method which only submits the binary data. The XML data is replaced by

```
['binary submit ' datestr(now)]
```

so it still has a unique md5 hash. Of course, only retrieving the binary data is possible.

For large data sets, this is much faster.

2009-02-03 09:15 hewitson

- * @repogui/: buildConditions.m, buildConnectPanel.m, buildMainFig.m, buildQueryPanel.m, buildRetrievePanel.m, buildSubmitPanel.m, buildquery.m, cb_condPlusBtn.m, cb_condSubtractBtn.m, cb_connect.m, cb_executeQuery.m, cb_fieldSelect.m, cb_get_dbs.m, cb_importBtn.m, cb_mainfigClose.m, cb_refreshObjsList.m, cb_saveBtn.m, cb_select_db.m, cb_select_repo.m, cb_submit.m, cb_tabChanged.m, cb_tableSelect.m, cb_workspaceObjsList.m, createTable.m, getFields.m, getTables.m, getWorkspaceObjs.m, repogui.m, setWorkspaceObjsList.m, sqlResultsGUI.m: The renamed repogui.

2009-02-02 21:54 ingo

- * @plist/plist2cmds.m: Add getInfo information.

2009-02-02 21:54 ingo

- * @plist/parse.m: 1.) Bug fix: If the equations are dependent then set the value back to the input value. It was changed to upper case letters. 2.) Add getInfo information

2009-02-02 21:51 ingo

- * @ao/elementOp.m: Add additional error information.

2009-02-02 21:48 ingo

* +utils/+const/@categories/categories.m: Add some help information

2009-02-02 19:15 hewitson

* @LTPDAworkbench/MPipeline.jar, @launchBay/buildMainfig.m: Renamed to repogui.

2009-02-02 18:04 mauro

* @fsdata/display.m: Added the 'navs' field to those listed by the display method.

2009-02-02 17:59 hewitson

* @unit/eq.m: Bug fix. Make sure each match is unique.

2009-02-02 17:32 ingo

* @unit/ne.m: overload the 'ne' method for unit objects.

2009-02-02 17:32 ingo

* @unit/eq.m: bug fix: The first solution returns for the units $u1 = [km\ mm\ mm]$ and $u2 = [mm\ km\ km]$ that they are equal. Use the simplify method to prevent this.

2009-02-02 17:29 ingo

* @unit/simplify.m: bug fix: copy the input depending to the output.

2009-02-02 16:46 anneke

* @ao/mdc1_ifo2acc_fd.m: changed units, works now

2009-02-02 16:44 hewitson

* @unit/eq.m: Overload the equals operator for units. Two units are considered equal if they share the same smallest unit parts; the order doesn't matter. So the following are equal:

`'m V' == 'V m' 'mm N^2 pK' == 'pK mm N^2'`

2009-02-02 16:42 hewitson

* @unit/split.m: A new method that splits a unit into a set of the units each of only one unit long.

2009-02-02 13:58 ingo

- * @pzmodel/fromLISO.m: Define a default value for the 'delay' property.

2009-02-02 13:30 hewitson

- * @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar, cb_launchConstructor.m, cb_launchLTPDApreferences.m, cb_launchRepogui.m, cb_launchSigBuilder.m, cb_launchSpecwinViewer.m: Added the various LTPDA GUIs as menu items on the workbench.

2009-02-01 11:51 hewitson

- * @LTPDAworkbench/LTPDAworkbench.m: Removed currently unsupported features from the help.

2009-01-31 22:00 hewitson

- * @LTPDAworkbench/: MPipeline.jar, reset.m: Use the new method for getting the active diagram name and update jar file.

2009-01-31 19:36 hewitson

- * @LTPDAworkbench/lib.mat: Updated library.

2009-01-31 19:32 hewitson

- * @miir/miir.m, @pzmodel/pzmodel.m: Nicer to set units to string value, rather than unit().

2009-01-31 19:28 hewitson

- * @mfir/mfir.m: Nicer to set units to string value, rather than unit().

2009-01-31 19:28 hewitson

- * @mfir/oldresp.m, @miir/oldresp.m: Don't need oldresp anymore.

2009-01-31 19:26 hewitson

- * @LTPDAworkbench/MPipeline.jar: Updated jar file.

2009-01-31 19:24 hewitson

- * @LTPDAworkbench/parseReadyBlocks.m: Bug fix

2009-01-31 13:50 hewitson

* @LTPDAworkbench/MPipeline.jar: update to jar file.

2009-01-31 13:49 hewitson

* @LTPDAworkbench/runPipeline.m: show the last error message on the terminal.

2009-01-31 13:49 hewitson

* @LTPDAworkbench/: LTPDAworkbench.m, cb_changeVerbosity.m: Can now set the verbosity level of LTPDA from the GUI.

2009-01-31 12:43 hewitson

* @ao/iplot.m: Bug fix in plotting cdata AOs. The lines were being plotted twice.

2009-01-31 11:51 hewitson

* @LTPDAworkbench/runPipeline.m: Forgot to throw the error in the catch, after showing the dialog.

2009-01-31 11:50 hewitson

* @pzmodel/pzmodel.m: UTP RELEVANT!!!

Added a plist constructor which does a copy constructor

```
pzmodel(plist('pzmodel', pzm))
```

I think we need this in other user classes.

2009-01-30 22:24 hewitson

* @LTPDAworkbench/MPipeline.jar: Updated jar file.

2009-01-30 22:24 hewitson

* @LTPDAworkbench/runPipeline.m: Will throw up an error dialog if execution breaks.

2009-01-30 21:59 hewitson

* @LTPDAworkbench/: MPipeline.jar, lib.mat: Update jar and lib file.

2009-01-30 21:58 hewitson

- * @LTPDAworkbench/LTPDAworkbench.m: Load the help for the models on to the workbench to make the user's choice easier.

2009-01-30 16:22 ingo

- * @ao/ao.m: 1. Set for the set 'From Values' the parameter 'vals' to an empty double and 2.) The constructor from plist looks for the parameter and not for an empty parameter.

2009-01-30 16:20 ingo

- * @ao/fromVals.m: If the parameters 'vals', 'xvals' and 'yvals' are empty then created this method an AO with an cdata object and the value '0'

2009-01-30 16:13 hewitson

- * +utils/@mysql/connect.m: Changes to make repogui always ask for a login when clicking connect.

2009-01-30 12:00 hewitson

- * @ao/ao.m: Changed default value for 'VALS' which stops the default plist from breaking the constructor.

Not a nice solution, but we will change this to something better after V2.

2009-01-30 11:05 miquel

- * @ao/xspec.m: bug fix. solves utp_ao_cohere #6 and #9

2009-01-29 20:04 hewitson

- * @LTPDAworkbench/LTPDAworkbench.m: Callback support for the new export to workspace button.

Also, cleaning up and removing support of unfinished and untested features for V2 release.

2009-01-29 20:04 hewitson

- * @LTPDAworkbench/cb_exportWS.m: Support for the new button on the GUI that copies output results from selected blocks in to the MATLAB workspace.

2009-01-29 20:02 hewitson

- * @LTPDAworkbench/: cb_display.m, plotHistory.m, plot.m, explore.m: Pop-up error dialog instead of throwing error message on terminal.

2009-01-29 16:17 miquel

- * @ao/lxspec.m: variance only is added for tfe and with variance 'yes'. This solves problems with cpsd and cohere.

2009-01-29 14:40 hewitson

- * @LTPDAworkbench/lib.mat: Updated lib.

2009-01-29 12:07 miquel

- * @ao/: ltfe.m, tfe.m: help updated

2009-01-29 11:56 miquel

- * @ao/: welch.m, xspec.m: bug fixes in the variance estimation

2009-01-29 11:45 luigi

- * @ao/: noisegen1D.m, noisegen2D.m, sDomainFit.m, whiten1D.m, whiten2D.m, zDomainFit.m: Help updated Removed some confusion with the assignment of procinfo parameters names in nisegen1D / 2D and whiten1D / 2D

2009-01-29 09:59 luigi

- * +utils/@math/spflat.m: Corrected an error: I was using the geomean function of the statistics toolbox. Not it is substituted by the direct calculation of the geometric mean

2009-01-29 09:31 hewitson

- * @LTPDAworkbench/MPipeline.jar: New jar file.

2009-01-29 09:28 hewitson

- * @specwinViewer/cb_selectWindow.m: When selecting a window, the time-domain plot is automatically made and the info panel is filled.

2009-01-29 09:18 hewitson

- * @LTPDAworkbench/cb_importFromMfile.m: Put some code in place to select a file and convert it to a pipeline. The parser is not robust enough for release yet, so we will deactivate this in GUI for V2 release.

2009-01-29 09:16 hewitson

- * @LTPDAworkbench/parseCmd.m: Some code hardening but this still needs some work to make it a robust parser.

2009-01-29 09:16 hewitson

- * @LTPDAworkbench/cb_blockdoc.m: Forgot this file.

2009-01-28 21:11 luigi

- * +utils/@math/math.m: updated list of methods

2009-01-28 21:10 luigi

- * +utils/@math/spflat.m: A function to measure the spectral flatness - useful to quantitatively define the "whiteness" of the spectrum. It performs the ratio between geometric mean with arithmetic mean of the spectrum.

2009-01-28 20:42 ingo

- * @ltpda_filter/resp.m: Set 'f1' and 'f2' to the plist. Is this correct ?????

2009-01-28 20:40 ingo

- * @mfir/fromStruct.m, @miir/fromStruct.m: Don't set the property 'ntaps' because it is a dependent property

2009-01-28 20:38 ingo

- * @pzmodel/tomfir.m: Add 'scale' = 'lin' to the default plist

2009-01-28 16:45 ingo

- * +utils/@prog/mcell2str.m: Add java

2009-01-28 16:44 ingo

- * @ltpda_obj/eq.m: bug fix:

2009-01-28 16:44 ingo

- * @param/display.m: Use mat2str to display logicals

2009-01-28 16:43 ingo

- * @plist/: plist2cmds.m, string.m: Add new features: 1.) from sym 2.) from struct 3.) ...

2009-01-28 16:42 ingo

- * @ao/fs.m: bug fix: The loop collects the 'fs' in an array and not is a cell array

2009-01-27 17:27 ingo

- * @ao/whiten1D.m: 1.) Add the random state to the history plist. 2.) The method uses the dot command to compute the filter of an AO.

2009-01-26 22:26 mauro

- * @ao/std.m: Added option to allow evaluation of std(x,1) which "produces the square root of the second moment of the sample about its mean" Help fixed

2009-01-25 17:06 mauro

- * +utils/@helper/: helper.m, time_data_worsener.m: An utility to take evenly sampled time series and introduce imperfections: -missing samples -time-shifted samples It should be useful for testing only, I hope ;)

2009-01-25 17:01 mauro

- * @ao/t0.m: Fixed to work with single input.

2009-01-25 17:00 mauro

- * +utils/@helper/ver2num.m: Help fixed

2009-01-25 14:16 hewitson

- * @LTPDAworkbench/: MPipeline.jar, lib.mat: Updated jar file and library

2009-01-25 14:16 hewitson

- * @LTPDAworkbench/LTPDAworkbench.m: Added support to call doc from the gui menu bar.

2009-01-25 11:34 hewitson

- * @LTPDAworkbench/LTPDAworkbench.m: Upload the available repository hosts to the workbench on startup.

2009-01-25 11:34 hewitson

- * @ao/ao.m: Use the simpler forms of parameter values whenever possible. For example, the user would prefer to see a default value for t0 as '1970-01-01 00:00:00' than time(0,)

2009-01-25 11:13 hewitson

- * +utils/@mysql/connect.m: Uses the new LTPDA preference for the expiry time for logins.

2009-01-25 11:13 hewitson

- * @LTPDAprefs/: buildPrefsPlist.m, cb_categorySelect.m: Added a new property 'loginExpiry' to the 'repository' category to specify the time for expiring logins.

Also timezones are now displayed as a popup menu.

2009-01-25 10:57 hewitson

- * @LTPDAprefs/LTPDAprefs.m: Added command-line support for setting preferences. Example:

```
LTPDAprefs('display', 'verboseLevel', 3)
```

2009-01-25 10:52 hewitson

- * +utils/+const/@msg/msg.m: Added possible message levels to the help text.

2009-01-25 10:51 hewitson

- * @time/time.m: Made getTimezones static. This is more useful.

2009-01-25 10:28 hewitson

- * +utils/@mysql/connect.m: Added a persistent storage (in memory) of previously successful logins. If a user tries to login to a repository which they have already logged in to, then they are

not prompted for a username or password. Instead the existing login info is used. Logins currently expire after 30s but this value will be configurable in the LTPDA preferences soon.

2009-01-24 19:40 hewitson

- * @ltpda_uo/update.m: A new method which will allow updating/replacing of objects in a repository.

This is only partly tested, in particular, calling with an sinfo struct is not tested (but should work).

2009-01-24 18:07 hewitson

- * @LTPDAworkbench/MPipeline.jar: Updated jar file.

2009-01-23 16:17 hewitson

- * @LTPDAworkbench/: MPipeline.jar: Updated jar file.

2009-01-23 15:58 hewitson

- * @pzmodel/resp.m: better make the delay imaginary :)

2009-01-23 15:45 hewitson

- * @pzmodel/resp.m: a bug fix and support for the new delay parameter.

2009-01-23 15:45 hewitson

- * @pzmodel/pzmodel.m: Changed the default for pole and zero fields to be []. Don't remember why we had them set to empty pz objects. Don't like producing an empty pzmodel which has poles and zeros at NaN Hz.

Anyone no why???

Also bug fixes to new constructors.

2009-01-23 15:44 hewitson

- * @pzmodel/: getlowerFreq.m, getupperFreq.m: return sensible answers in the case of no poles and no zeros.

2009-01-23 15:43 hewitson

- * @pzmodel/fromLISO.m: reads the delay from the liso file now.

2009-01-23 15:43 hewitson

* @pzmodel/display.m: some reformatting.

2009-01-23 15:12 ingo

* @pzmodel/pzmodel.m: Now I add the property 'delay'.

2009-01-23 14:59 ingo

* @pzmodel/: display.m, fromPolesAndZeros.m, pzmodel.m, setDelay.m:
Add the new property 'delay' to the pzmodel. There exist two
constructor to set the 'delay' direct: pzm = pzmodel(gain, poles,
zeros, delay) pzm = pzmodel(gain, poles, zeros, delay, name)

2009-01-23 13:42 hewitson

* @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar,
cb_plotHistory.m, lib.mat, parseReadyBlocks.m, plot.m,
plotHistory.m, rebuildLibrary.m, runPipeline.m: Update to support
the bug fixes and new features of the java gui.

Also, constructor blocks now automatically call the setName
method so that the variables produced have the name that was set
on the block diagram. This means a setName history step is added.

2009-01-23 12:35 hewitson

* @ao/: t0.m, x.m, xunits.m, y.m, yunits.m, fs.m: Changed to return
vectors of the properties.

For the x and y data, the data are returned as a matrix so the
sizes need to be the same.

2009-01-23 10:48 hewitson

* @ltpda_uoh/setName.m: Made this method consistent whether the
'internal' switch is used or not.

2009-01-23 10:47 hewitson

* @ao/elementOp.m: added 'internal' switch for simplifying output
units.

2009-01-23 10:07 hewitson

* @ao/display.m, @ao/iplot.m, @ao/iplotyy.m, @ao/minus.m,

@ao/mrdivide.m, @ao/mtimes.m, @ao/plus.m, @ao/rdivide.m,
@ao/times.m, @mfir/display.m, @miir/display.m,
@parfrac/display.m, @plist/display.m, @pzmodel/display.m,
@rational/display.m, @ssm/display.m, @timespan/display.m: Setting
input/output argument sizes

2009-01-23 09:56 hewitson

* @ao/lcpsd.m: Set minimum input arguments and add default
parameter for variance estimate.

2009-01-23 09:56 hewitson

* @mfir/mfir.m, @miir/miir.m, @parfrac/parfrac.m, @plist/plist.m,
@pzmodel/pzmodel.m, @rational/rational.m, @ssm/ssm.m,
@timespan/timespan.m: Setting input/output argument sizes

2009-01-23 08:40 hewitson

* @ao/xspec.m: Bug fix. The fsdata object had different variable
names in different places.

2009-01-23 08:39 hewitson

* @ssm/getBuiltInModels.m: Bug fix.

2009-01-23 08:39 hewitson

* @ao/cpsd.m: Set minimum input arguments and add default parameter
for variance estimate.

2009-01-23 08:38 hewitson

* @ao/: cohere.m, lcohere.m, ltfe.m, tfe.m: Set minimum input
arguments.

2009-01-22 21:33 ingo

* @ltpda_obj/eq.m: Expand the comparison of cell and structures
with the exception list. It is possible that a cell/struct
contains a ltpda_obj object and now uses the method the exception
list for this objects.

2009-01-22 16:12 ingo

* @ao/t0.m: This method works now for more than one AO. In case of
multiple AOs returns this method the t0 objects in a cell array
only for one input returns this method direct the object (without

a cell array). An AO with cdata or xydata returns an empty double.

2009-01-22 16:09 ingo

* @ao/ao.m: New constructor for a constant and a plist. For example
a1 = ao(10, plist('name', 'my name'))

2009-01-22 12:15 hewitson

* @ao/elementOp.m: Bug fix in the naming if the elements of an input vector have an actual name (not 'none') then this name should get used with out the vector indices.

2009-01-21 18:43 anneke

* @ao/straightLineFit.m: changed data type of ao to fit to from cdata to tsdata

2009-01-21 18:41 anneke

* @ao/lscov.m: typo

2009-01-21 18:19 ingo

* @plist/plist.m: Add copy constructor

2009-01-21 18:10 ingo

* @ltpda_uo/setName.m, @plist/setName.m: Create own setName for the plist-class. Now it is possible to set the name of a plist with a plist.

2009-01-21 18:08 ingo

* +utils/@helper/xmlread.m: Bug fix: Don't add the fields 'tbxver' and 'class' to a structure object

2009-01-20 23:03 hewitson

* @plist/find.m: Now also works with a plist input.

UTP RELEVANT

2009-01-20 22:02 hewitson

* @LTPDAworkbench/: MPipeline.jar, lib.mat, runPipeline.m: Update

2009-01-20 15:35 hewitson

- * @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar, rebuildLibrary.m: Better build library function.

2009-01-20 14:41 ingo

- * @ltpda_filter/resp.m: Some small changes like: adding the 'bank' to the history plist. Keep the shape of the output objects. Split the output into a list of outputs. ...

2009-01-20 14:38 ingo

- * @pzmodel/resp.m: Bug fix: Use the x-axes for the f-vector.

2009-01-20 10:46 hewitson

- * @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar: Now uploads the supported window types when the GUI loads.

2009-01-19 20:59 ingo

- * @miir/fromParfrac.m, @pzmodel/tomfir.m: Use linear scale to build the mfir filter.

2009-01-19 20:57 ingo

- * @mfir/redesign.m, @miir/redesign.m: Get the plistUsed from the constructor history block which created this object.

2009-01-19 20:18 miquel

- * @ao/: ltfe.m, lxspecc.m, mltfe.m: added error estimation to log transfer function estimate (ltfe). It is returned as two ao's (mag. and phase error) in the procinfo. This is UTP RELEVANT: adds new plist parameter and new procinfo output.

2009-01-19 16:21 ingo

- * @miir/redesign.m: 1) First look for a constructor block to get the plistUsed to redesign the filter 2) Add the feature to redesign filter which are designed from a parfrac model

2009-01-19 15:14 ingo

- * @plist/pset.m: Bug fix. Could not use the method collect_objects to collect the plist objects because this method even collect the plists which should be the value. Create for the a own collection

of the inputs. Now exist a rule for the input that a 'key' must always be followed by the 'value'.

2009-01-19 14:56 miquel

- * @ao/welch.m: corrected transfer function phase error expression

2009-01-19 13:16 ingo

- * @mfir/fromStruct.m, @miir/fromStruct.m: update methods

2009-01-19 13:13 ingo

- * @unit/: fromStruct.m, unit.m: Use the method fromStruct to create from a struct an object.

2009-01-19 11:59 anneke

- * @ao/lscov.m: lscov gives back cdata ao containing fit coefficients and a 2nd ao containing errors

2009-01-19 11:34 hewitson

- * @LTPDAworkbench/: MPipeline.jar, cb_display.m, cb_explore.m, cb_export2mfile.m, cb_export2terminal.m, cb_importFromMfile.m, cb_importFromWorkspace.m, cb_plot.m, cb_rebuildLibrary.m, explore.m, plot.m, LTPDAworkbench.m: Supporting MATLAB code for the new GUI features.

2009-01-19 10:50 hewitson

- * @pzmodel/tomiir.m: Fixed a nasty bug where the default 'fs' was always being used and the user-supplied value was ignored.

!!! NEED TO CHECK tomfir AS WELL !!!

2009-01-19 10:31 hewitson

- * @ltpda_filter/resp.m: Fix to the default option for 'bank'.

2009-01-18 21:47 hewitson

- * @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar, executeReadyBlocks.m, reset.m, runPipeline.m, stepForward.m: Work to support the new 'keep results' property of blocks.

2009-01-18 19:29 mauro

* @ltpda_uo/submit.m: Fixed typo in the help

2009-01-18 15:48 hewitson

* @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar: Activated the two new buttons:

plot and explore the outputs of the selected blocks, once the pipeline has been executed, of course.

2009-01-18 11:45 hewitson

* @LTPDAworkbench/MPipeline.jar: Now points to the new version of MPipeline.

2009-01-18 11:45 hewitson

* @LTPDAworkbench/lib/: jcommon-1.0.8.jar, swing-layout-1.0.3.jar:
A new version of the java gui with the following features:

- + significant recoding of the subsystem handling to better conform to a Model-View-Controller design patter. This provides a much more robust treatment of subsystems.

- + in light of the new subsystem handling, the file format has changed to a more maintainable form that properly records the subsystem relationships without the need for the horrible hacky code from the first version that had to restore links between documents.

- + the state of the whole workbench is recorded on various user actions and be undone or redone. Currently the history stack is set to 30. In principle it can be arbitrarily long but I want to check the memory handling first. This also supports all actions on subsystems (creation, deletion, etc) which the previous version did not.

NOTE: I decided to copy the source code from MPipeline to a new project (this one) MPipeline2 because of the depth of the changes. This means that makeToolbox will now point to this source directory when installing the jar file. A switch at the top of makeToolbox allows us to go back to the old jar file if we want to.

2009-01-16 19:48 ingo

* @pzmodel/resp.m: New design of the response method.

2009-01-16 19:48 ingo

- * @pzmodel/: getlowerFreq.m, getupperFreq.m: Throw an error if the input pzmodel are larger than 1

2009-01-16 15:47 hewitson

- * @ltpda_filter/resp.m: Some fixing of the history, name and units.

2009-01-16 15:37 hewitson

- * @ltpda_filter/resp.m: Added a new parameter to allow calculation of the response of a parallel or serial filter bank.

2009-01-16 14:04 hewitson

- * @miir/fromStruct.m: There was a bug here that the toolbox version was always set to 1.0 instead of being taken from the input file. This needs to be fixed in other classes; it was already fixed in the AO class.

2009-01-16 13:57 hewitson

- * @ltpda_uo/retrieve.m: The retrieve method was using the object 'creator' field to get the toolbox version. Since this doesn't exist anymore, we need to get it from somewhere else. When we store a binary version of an object, we always add a field with 'tbxver'; we use this now to instruct the updating of the structure.

2009-01-16 13:02 luigi

- * @ao/whiten1D.m: Removed not necessary code I introduced for a test...

2009-01-15 22:06 hewitson

- * @LTPDAworkbench/parseReadyBlocks.m: Some more robust handling of connections and port numbers.

2009-01-15 18:26 ingo

- * @pzmodel/tomiir.m: Use 'varargout' for the output.

2009-01-15 18:05 ingo

- * @specwin/get_window.m: Add an error if a user wants to create a Kaiser window without PSL

2009-01-15 18:04 ingo

- * @specwin/specwin.m: Add the 'Kaiser' window to the supported windows.

2009-01-15 18:03 ingo

- * @ao/psd.m, @ao/spectrogram.m, @mfir/fromAO.m, @mfir/parseFilterParams.m: Remove the 'Flattop' window because the LTPDA framework didn't support this window.

2009-01-15 18:02 ingo

- * @ltpda_uoh/type.m: ??

2009-01-15 18:01 ingo

- * @pzmodel/tomfir.m: Small bug fix

2009-01-15 18:01 ingo

- * @pzmodel/pzmodel.m: Remove the some prototypes because they are now defined in the pz class.

2009-01-15 18:00 ingo

- * @pzmodel/pzm2ab.m: Remove the strange commad: if ~isempty(ao) > 0 to if ~isempty(ao)

2009-01-15 14:46 anneke

- * @ao/: lxspect.m, xspect.m: added different units for each method

2009-01-15 14:13 miquel

- * @ao/welch.m: corrected an error in the output

2009-01-15 11:55 miquel

- * @ao/: tfe.m, welch.m, xspect.m: started adding errors to transfer function estimates. Not yet tested but it doesn't break anything. UTP RELEVANT: it adds a new 'Variance' parameter to tfe,welch and xspect.

2009-01-14 19:16 ingo

- * @ltpda_uoh/setProperties.m: Create special case for the timespan

class (setStartT and setEndT).

2009-01-14 19:15 ingo

- * @pzmodel/: tomfir.m, tomiir.m: Adapt the methods to our method style.

2009-01-14 19:14 ingo

- * @pzmodel/resp.m: Keep the shape of the input for the output

2009-01-14 19:14 ingo

- * @pzmodel/pzmodel.m: Set the access status of pzm2ab to 'protected'. Make this sense?

2009-01-14 19:13 ingo

- * @timespan/timespan.m: Define the properties at the top of the constructor.

2009-01-14 19:12 ingo

- * @timespan/: setEndT.m, setStartT.m: It is now possible for the 'internal' usage to pass doubles in.

2009-01-14 18:06 luigi

- * @parfrac/parfrac.m: Removed non-existent FromCoefficients method

2009-01-13 15:30 ingo

- * @ao/string.m, @ltpda_uoh/string.m, @mfir/mfir.m, @mfir/string.m, @miir/miir.m, @miir/string.m, @parfrac/parfrac.m, @parfrac/string.m, @pzmodel/pzmodel.m, @pzmodel/string.m, @rational/rational.m, @rational/string.m, @ssm/ssm.m, @ssm/string.m, @timespan/string.m: Create for ltpda_uoh a general 'string' method. Remove the 'string' method from all classes which are derived from the ltpda_uoh class (ao, ssm, rational, parfrac, pzmodel, miir, mfir, timespan)

2009-01-13 14:44 ingo

- * @ao/elementOp.m: Simplify the y-units except 'Hz'

2009-01-13 14:43 ingo

- * @ao/simplifyYunits.m, @unit/simplify.m, @unit/unit.m: Add a

exception list for simplifying the units.

2009-01-13 14:41 ingo

* @fsdata/update_struct.m: Add some rules to update a structure.

2009-01-13 14:41 ingo

* @ltpda_uoh/fromFile.m: Bug fix

2009-01-13 14:40 ingo

* @mfir/mfir.m: Remove 'from LISO file' set

2009-01-13 14:14 hewitson

* @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar, reset.m: Small bug fixes that got missed in the last commit.

2009-01-13 13:33 hewitson

* @LTPDAworkbench/: LTPDAworkbench.m, MPipeline.jar, addBlock.m, addBlockInput.m, appendParam.m, appendPlist.m, cb_reset.m, cb_runPipeline.m, cb_skipForward.m, cb_stepBackwards.m, cb_stepForward.m, close.m, cmds2pipeline.m, connectBlocks.m, downloadPlist.m, executeReadyBlocks.m, export.m, fromM.m, fromXML.m, getBlockByName.m, getwbh.m, jpl2mpl.m, lib.mat, minfo2algo.m, moveBlock.m, mpl2jpl.m, newPipeline.m, objs2pipeline.m, parse.m, parseCmd.m, parseReadyBlocks.m, rebuildLibrary.m, refreshLibrary.m, reset.m, runPipeline.m, save.m, setBlockColor.m, setParam.m, skipForward.m, stepBackwards.m, stepForward.m, uploadPlist.m: New class which acts as a wrapper to the new java GUI.

2009-01-12 14:02 ingo

* +utils/+const/@categories/categories.m: Add a new category
utils.const.categories.gui -> 'GUI function'

2009-01-12 14:01 ingo

* @ssm/kalman.m, @plist/g_constructor.m: Use a constant to define the category.

2009-01-12 14:00 ingo

* @specwin/specwin.m: Change the default length of an standard window back to zero.

2009-01-12 13:44 ingo

- * @history/history.m, @mfir/mfir.m, @miir/miir.m, @minfo/minfo.m, @parfrac/parfrac.m, @provenance/provenance.m, @pz/pz.m, @pzmodel/pzmodel.m, @rational/rational.m, @specwin/specwin.m, @unit/unit.m: To have the same behavior in each class throw always an error for an unknown set name. e.g. `mfir.getInfo('mfir','nonExistentSet')`

2009-01-12 13:29 ingo

- * @mfir/mfir.m, @mfir/mkbandpass.m, @mfir/mkbandreject.m, @mfir/mkhhighpass.m, @mfir/mklowpass.m, @miir/miir.m, @miir/mkbandpass.m, @miir/mkbandreject.m, @miir/mkhhighpass.m, @miir/mklowpass.m: Add a second value for 'fc' in the plist-set 'From Standard Type' because the standard type 'bandpass' and 'bandreject' needs the second value.

2009-01-12 12:27 luigi

- * @parfrac/parfrac.m: changed the example in help

2009-01-12 12:10 ingo

- * @ao/ao.m, @mfir/mfir.m, @miir/miir.m, @parfrac/parfrac.m, @pzmodel/pzmodel.m, @rational/rational.m, @ssm/ssm.m, @timespan/timespan.m: Add an empty plist to the addHistory in the empty object constructor. I did this because the 'string' method doesn't work for an empty object which was built from an empty plist. e.g. `a = ao(plist) -> a.string -> [ao([plist()])]`

2009-01-08 18:07 ingo

- * +utils/@prog/mcell2str.m: This method accepts now cells with logicals and structures.

2009-01-08 18:06 ingo

- * @ltpda_uoh/fromFile.m: Add some display information.

2009-01-08 18:04 ingo

- * @ltpda_uo/setName.m: Use the same variant of setName as in ltpda_uoh class (instead of the history part)

2009-01-08 18:03 ingo

* @ao/ao.m, @mfir/mfir.m, @miir/miir.m, @parfrac/parfrac.m, @pzmodel/pzmodel.m, @rational/rational.m, @ssm/ssm.m: Add history to the empty-constructor and the constructor with empty plist:
obj = class(); obj = class(plist());

2009-01-08 18:01 ingo

* @ao/elementOp.m: Use normalized data values with obj.x and not obj.data.x

2009-01-08 17:59 ingo

* @timespan/: fromTimespanDef.m, timespan.m: Create new rules for the timeformat: %1. Take the timeformat from the input plist
% 2. Take the timeformat from the time strings % 3. Take the default timeformat

2009-01-08 17:58 ingo

* @time/: fromTimeString.m, fromTimeValue.m, time.m: Use same key 'time' for input strings or numbers instead of different keys 'time_str' and 'utc_epoch_milli'

2009-01-08 17:56 ingo

* @time/setTime_str.m: Bug fix (This method doesn't really work before this fix)

2009-01-08 17:54 ingo

* @time/epoch2str.m: Move the header

2009-01-08 17:54 ingo

* @pzmodel/update_struct.m: set 'tbxver' and 'class' to each pole/zero structure (Use loop)

2009-01-08 17:53 ingo

* @pzmodel/fngen.m: Get normalized data values with obj.x and not obj.data.x

2009-01-08 17:52 ingo

* @cdata/update_struct.m, @fsdata/update_struct.m, @tsdata/update_struct.m, @xydata/update_struct.m: Convert the symbolic units in LTPDA version 1.9.1 into strings.

2009-01-08 17:51 ingo

- * @ao/loadobj.m, @cdata/loadobj.m, @fsdata/loadobj.m, @history/loadobj.m, @mfir/loadobj.m, @miir/loadobj.m, @minfo/loadobj.m, @param/loadobj.m, @parfrac/loadobj.m, @plist/loadobj.m, @provenance/loadobj.m, @pz/loadobj.m, @pzmodel/loadobj.m, @rational/loadobj.m, @specwin/loadobj.m, @time/loadobj.m, @timespan/loadobj.m, @tsdata/loadobj.m, @xydata/loadobj.m, @xyzdata/loadobj.m: Small bug fix in loadobj: Add the 'tbxver'+ 'class' to all objects (numel instead of length)

2009-01-05 18:55 ingo

- * @ltpda_uoh/fromRepository.m: Remove the connection ID from the history plist if the plist contain the key word 'conn'

2009-01-05 18:53 ingo

- * @plist/string.m: Bug fix if the input are more than one plists.

2009-01-05 18:52 ingo

- * @pzmodel/pzmodel.m: Add some constructor which are necessary for the rebuild method. Small bug fix is a plist contain a plist. The key word must be 'plist' and not 'ipl'

2009-01-05 18:50 ingo

- * @pzmodel/fromRational.m: Add the history of the rational object tot the pole/zero model object.

2009-01-05 11:56 ingo

- * @ltpda_obj/get.m: New function to get a property value without using the '.' -dot convention. This function accepts only two inputs. The first input must be the object and the second must be a string with the property name or a plist which contains the property name.

2008-12-30 14:16 luigi

- * @ao/mdc1_ifo2acc_fd_utn.m: Changed multipliers order in order to obtain the desired results according with the priority rules

2008-12-30 14:15 luigi

- * @ao/diff.m: changed a [] to '' in the default plist to avoid a warning during execution

2008-12-27 20:32 hewitson

* @ssm/ssmFromBuiltinSystem.m: Bug fix: typo in model paths.

2008-12-23 16:52 luigi

* @ao/unwrap.m: A new method to overload unwrap function for analysis objects

2008-12-23 10:19 mauro

* @unit/unit.m: Added a check on the size of the cell array including the user-defined units

2008-12-22 19:45 luigi

* +utils/@math/: psd2tf.m, psd2wf.m: some changes...

2008-12-22 19:45 luigi

* +utils/@math/math.m: made some changes to all pass functions

2008-12-22 19:44 luigi

* +utils/@math/: pfallps.m, pfallpz.m: added the possibility to obtain a minimum phase function - not very useful at the moment

2008-12-22 17:46 mauro

* @unit/unit.m: The same bug fix as previous, likely more robust

2008-12-22 15:47 mauro

* @unit/unit.m: Fixed small bug in retrieving user-defined units

2008-12-21 13:16 hewitson

* @LTPDAPrefs/buildPrefsPlist.m: Small bug fix for the case that the path to the DOT binary is empty.

2008-12-19 17:52 ingo

* @plist/parse.m: bug fix: Make only parameter substitution on whole words. For example plist('fcn', 'a*randn(12,1)', 'a', 2). Parse doesn't replace the 'a' in randn because the whole word randn doesn't match with 'a'

2008-12-19 16:06 hewitson

- * @ao/fromFcn.m: Small bug fix to force parse to try and replace evaluatable strings.

2008-12-19 16:01 hewitson

- * @ao/fromFcn.m: Bug fix so that:

```
ao(plist('fcn', 2))
```

and

```
ao(plist('fcn', '2'))
```

both work.

Also removed some old variable parsing code which should now be handled by plist/parse, I hope.

2008-12-19 15:44 luigi

- * +utils/@math/iirinit.m: solved the problem of instability in the solution of the linear system caused by ill conditioned system matrix. In case of ill conditioned matrix it set to zero the initial state

2008-12-19 12:01 hewitson

- * @ao/elementOp.m: Bug fix with regards units.

2008-12-18 13:21 hewitson

- * @ao/simplifyYunits.m, @unit/simplify.m: Bug fix to prefixes

2008-12-18 13:21 hewitson

- * @unit/tolabel.m: Add half space between each unit in the output

2008-12-18 13:21 hewitson

- * @cdata/copy.m, @fsdata/copy.m, @tsdata/copy.m, @xydata/copy.m: Bug fixes to copy for x and y units.

2008-12-18 13:02 hewitson

- * @mfir/fromAO.m: Remove the input AO from the plist because we put that in the history. We don't need it twice.

2008-12-18 10:59 hewitson

- * @unit/tolabel.m: Some minor formatting changes

2008-12-18 09:46 hewitson

- * @unit/tolabel.m: In the case of no numerator units, we don't need the full $\frac{1}{}$, 1/ will do.

2008-12-17 17:03 ingo

- * @timespan/timespan.m: bug fix: Use a loop to check the output objects.

2008-12-17 17:00 ingo

- * @timespan/: setEndT.m, setStartT.m, setTimeformat.m, setTimezone.m: Split the output objects if the user use a list of output variables and some bug fixes.

2008-12-17 16:59 ingo

- * @timespan/display.m: bug fix: typo

2008-12-17 16:58 ingo

- * @time/: setTimeformat.m, setTimezone.m: Split the output objects if the user use a list of output variables.

2008-12-17 16:54 ingo

- * @plist/: plist2cmds.m, string.m: Now handle this methods plists with java (java.util.TimeZone) objects.

2008-12-17 15:25 ingo

- * @plist/: string.m: bug fix: It is not possible to use strtok because it happens that the string contains more than one ';'. This is the reason for regexp. But at the moment I'm not sure that the expression is correct.

2008-12-17 14:58 ingo

- * @plist/string.m: Creates now a string from a structure.

2008-12-17 14:05 hewitson

* @unit/tolabel.m: Small bug fix and added brackets.

2008-12-17 13:59 hewitson

* @ao/iplot.m: Supports use of the unit/tolabel method to make nicer unit labels.

2008-12-17 13:58 hewitson

* @unit/tolabel.m: New method to convert a unit into a LaTeX string.

2008-12-17 13:29 ingo

* @history/getObjectClass.m: Bug fix

2008-12-17 13:17 hewitson

* +utils/@helper/msg.m, +utils/@helper/xmlwrite.m,
@LTPDAprefs/buildPrefsPlist.m, @LTPDAprefs/cb_categorySelect.m,
@LTPDAprefs/cb_fileSelect.m, @ao/cohere.m, @ao/cpsd.m,
@ao/fngen.m, @ao/fromModel.m, @ao/getBuiltInModels.m,
@ao/lcohere.m, @ao/lcpsd.m, @ao/lpsd.m, @ao/lfe.m, @ao/psd.m,
@ao/spectrogram.m, @ao/tfe.m, @history/dotview.m,
@history/plot.m, @pzmodel/fngen.m, @ssm/dotview.m,
@ssm/getBuiltInModels.m, @ssm/ssmFromBuiltinSystem.m,
@time/epoch2str.m, @time/time.m, @unit/unit.m: WARNING BIG
CHANGE.

Now using the new user-centric preferences system.

Set user preferences via the LTPDAprefs GUI.

MAKE SURE THAT YOU ALSO UPDATE LTPDA_STARTUP.

2008-12-17 10:45 mauro

* @ao/fromTSfcn.m: Changed to produce objects whose data field has (Nx1) matrices. This allows to sum with tsdata waveforms UTP relevant

2008-12-16 19:11 nicola

* @mfir/mfir.m: Bug fix.

2008-12-15 21:35 hewitson

* @ao/mdc1_ifo2acc_fd.m: Stated to update this, but it's not

working due to the units being wrong in various places.

Needs a full review.

2008-12-15 21:31 hewitson

- * @ao/elementOp.m: Updated to behave like the old operators with respect to the type of the output data.

For example, for plus, the rules are:

tsdata = cdata + tsdata tsdata = tsdata + cdata cdata = cdata +
cdata fsdata = cdata + fsdata

etc.

2008-12-15 20:47 hewitson

- * @plist/parse.m: Handle the case of multiple user input plists.

2008-12-15 20:11 hewitson

- * @ao/mdc1_ifo2acc_inloop.m: Switched the order of the multiplication to preserve the tsdata objects.

2008-12-15 18:38 mauro

- * @ao/fromWaveform.m: Harmonized behavior: now all the waveforms contain tsdata in the form (N,1)

2008-12-15 17:16 luigi

- * @ao/mdc1_ifo2acc_fd_utn.m: Changed .* with * in some internal multiplications of a constant by an Ao

2008-12-15 15:51 ingo

- * @ao/simplifyYunits.m: add 'internal' switch.

2008-12-15 15:48 ingo

- * @pz/string.m: Use different strings for the different constructors. The different constructors are pz(1,2) and pz(1+2i)

2008-12-15 14:57 adrien

- * @ssm/: modifparams.m, modiftimestep.m, modify.m, reduce.m, reduce_model.m, resp.m, setparams.m, ssm2iirpz.m, ssm2miir.m,

ssm2pzmodel.m, ssm2rational.m, ssm2ss.m, subsparms.m: - "length" replaced with "numel" - modified output allocation

2008-12-15 14:54 adrien

* @ssm/minreal.m: - "length" replaced with "numel" -modified output allocation

2008-12-15 14:52 adrien

* @ssm/kalman.m: - "length" replaced with "numel" - some slight speed-up

2008-12-15 14:52 adrien

* @ssm/: isstable.m, loadobj.m: - "length" replaced with "numel"

2008-12-15 14:51 adrien

* @ssm/getBuiltinModels.m: deleted commented code

2008-12-15 14:51 adrien

* @ssm/double.m: -"numel" replaces "length" - always use deepcopy because this is not a modifier

2008-12-15 14:49 adrien

* @ssm/copy.m: -"numel" replaces "length" - now keeps the original shape

2008-12-15 14:49 adrien

* @ssm/cell_index.m: -"numel" replaces "length" -now accepts a 'char' for indexing only one i/o

2008-12-15 14:48 adrien

* @ssm/bode.m: -takes one ssm max -input option plists are now the same as for 'double' and 'reduce model'

2008-12-15 14:46 adrien

* @ssm/assemble.m: "length" replaced by "numel"

2008-12-14 22:41 adrien

* @ssm/ssmFromBuiltinSystem.m: deleting created and creator in the

built-in builder.

2008-12-13 12:32 hewitson

* @ao/: minus.m, elementOp.m, plus.m, rdivide.m, times.m: Updated to support constant terms:

$a = 2.*b$ $c = d+4$

and so on.

2008-12-12 17:15 luigi

* @ao/mdc1_cont2act_utn.m: removed amp where present because not used...

2008-12-12 16:59 luigi

* @ao/: mdc1_cont2act_utn.m, mdc1_ifo2acc_fd_utn.m, mdc1_ifo2cont_utn.m: changed category to mdc1 as expected

2008-12-12 15:40 luigi

* @ao/: mdc1_cont2act_utn.m, mdc1_ifo2acc_fd_utn.m, mdc1_ifo2cont_utn.m: MDC1 UTN Functions for the conversion to acceleration of IFO data

2008-12-12 14:47 mauro

* @ao/ao.m: Remove the explicit setting of t0. In the case of files containing evenly sampled data, this was overwriting the t0 calculated by the tsdata constructor. UTP relevant!

2008-12-12 14:44 mauro

* @ao/: consolidate.m, split.m: Bug fix

2008-12-12 12:10 luigi

* +utils/@math/: vcfit.m, vdfit.m: corrected an error - substitute fitin to params

2008-12-11 09:19 hewitson

* @ao/: add.m, multiply.m: These now have their proper matlab names, plus and times.

2008-12-11 09:18 hewitson

- * @ao/: elementOp.m, minus.m, plus.m, rdivide.m, times.m: Moved to new operator rules.

2008-12-10 19:46 ingo

- * @ao/update_struct.m, @mfir/update_struct.m, @miir/update_struct.m, @parfrac/update_struct.m, @pzmodel/update_struct.m, @rational/update_struct.m, @ssm/update_struct.m, @timespan/update_struct.m: Remove the fields 'creator' and 'created' from the structure.

2008-12-10 19:44 ingo

- * @ao/display.m, @ltpda_uo/ltpda_uo.m, @ltpda_uo/setCreated.m, @ltpda_uo/setCreator.m, @ltpda_uoh/addHistory.m, @ltpda_uoh/created.m, @ltpda_uoh/creator.m, @ltpda_uoh/fromFile.m, @ltpda_uoh/fromRepository.m, @ltpda_uoh/ltpda_uoh.m, @plist/fromRepository.m, @plist/plist.m, @plist/setCreated.m, @plist/setCreator.m: 1.) Remove the properties 'creator' and 'created' from the ltpda_uo class to the plist class. 2.) Add in the ltpda_uoh class a 'creator' and 'created' method which returns the creator name and the created time from the history

2008-12-10 19:41 ingo

- * @mfir/char.m, @miir/char.m: combine two commands.

2008-12-10 19:40 ingo

- * @pzmodel/: display.m, fromPolesAndZeros.m, fromRational.m, getlowerFreq.m, getupperFreq.m, pzm2ab.m, pzmodel.m, resp.m: Use the MATLAB function 'numel' instead of 'length' to act on the poles and zeros

2008-12-10 19:37 ingo

- * @ltpda_tf/: setlunits.m, setOunits.m: If the user uses a list of output variables then will be the output data split up.

2008-12-10 16:38 luigi

- * +utils/@math/iirinit.m: added final check to avoid inf and nan

2008-12-10 16:38 luigi

- * @miir/fromParfrac.m: added fs a parameter to lp2z - changed mode

from sym to dbl

2008-12-10 13:07 hewitson

* @ao/lscov.m: A couple of small bug fixes.

2008-12-10 13:06 hewitson

* @ao/curvefit.m: Removed the print out of the interval since this was anyway wrong.

2008-12-10 11:39 luigi

* +utils/@math/: autocfit.m, autodfit.m, fpsder.m, math.m, psd2tf.m, psd2wf.m, vcfilt.m, vdfilt.m: Updated to work correctly with the selection of input parameters In fpsder it was also modified the way input data are extended. Now a "reflection" method is implemented like in filtfilt matlab function. This avoid unwanted transients

2008-12-10 11:36 luigi

* @ao/diff.m: updated to work correctly for 'FPS' option

2008-12-09 21:03 hewitson

* @ao/convert.m: Bug fix when specifying an action not in a plist.

2008-12-09 17:36 luigi

* +utils/@math/fpsder.m: Correcetd an error in the coefficients definition for the first derivative

2008-12-09 14:48 luigi

* @ao/filter.m: Modified the assignement of the initial state for parallel and serial banks

2008-12-09 14:03 miquel

* @ao/filtint.m: this method was already implemted (ao/fixfs)

2008-12-09 13:59 ingo

* @ltpda_obj/eq.m: Move the display information into a subfunction.

2008-12-09 12:04 luigi

- * @ao/filter.m: updated units for freq domain case corrected an error in the assignement of the initial state

2008-12-09 09:43 hewitson

- * @ao/: ao.m, plus.m: Set their outputs and inputs to correct values in minfo calls.

2008-12-09 08:32 hewitson

- * @LTPDAprefs/: LTPDAprefs.m, buildMainfig.m, buildPrefsPlist.m, cb_applyPrefs.m, cb_categorySelect.m, cb_dirAdd.m, cb_dirRmv.m, cb_fileSelect.m, cb_mainfigClose.m, cb_repoAdd.m, cb_repoRmv.m, cb_saveStateFalse.m, cb_unitAdd.m, cb_unitRmv.m: A new GUI which aims to replace the setting of preferences in ltpda_startup. The plan is to store a single structure in appdata which can be edited by this GUI. It also saves the preferences to file in XML format in the MATLAB preferences directory.

So far it is fully working, except that the resulting data structure is not used by the toolbox. Some more testing needed then we can move the toolbox over to call this structure in the various getappdata places.

2008-12-09 08:30 hewitson

- * @launchBay/: buildMainfig.m, ltpdaprefs.graffle, ltpdaprefs.png, ltpdv.graffle, ltpdv.png, pzmodeldesigner.graffle, pzmodeldesigner.png, quicklook.graffle, quicklook.png: Added some more apps to the new launch bay.

2008-12-09 08:22 hewitson

- * @modelViewer/cb_selectModel.m: Small change to get default plists from model files.

2008-12-08 18:10 ingo

- * +utils/@helper/collect_objects.m: collect_objects doesn't collect objects out of cell arrays because this function is also used in the plist class and there is it possible that the val contains a cell and this cell wasn't collect.

2008-12-08 17:04 ingo

- * @ao/split.m: It it possible to use the key name 'chunks' to split into contiguous pieces. For example out = a1.split('chunks', 10);

2008-12-08 17:01 ingo

- * @mfir/: mkbandpass.m, mkbandreject.m, mkhighpass.m, mklowpass.m:
Set the name of the filter to the type without the prefix 'std '

2008-12-08 17:00 ingo

- * @mfir/mfir.m: some updates to rebuild mfir objects.

2008-12-08 16:59 ingo

- * @mfir/fromAO.m: Append the history of the AO to the filter object.

2008-12-08 15:53 miquel

- * @ao/filtint.m: new method to resample an ao. Solves problems of ao/resample with non-integer sampling frequencies.

2008-12-07 18:24 hewitson

- * @unit/unit.m: Now reads in user-defined units.

2008-12-07 18:04 hewitson

- * @unit/: HzToS.m, sToHz.m: Two utility converters.

2008-12-07 18:04 hewitson

- * @ao/convert.m: The beginnings of a new method to perform various types of conversion.

2008-12-06 21:14 hewitson

- * @ao/: add.m, ao.m, elementOp.m, multiply.m: New operator methods based on the rules in the "operator rules" document.

For now 'add' can be used instead of 'plus' and 'multiply' instead of 'times'

Once we have agreed that their behaviour is what we want, then we can replace plus and times.

That means you need to use the 'method' calls, + still calls plus etc.

2008-12-05 18:24 luigi

- * @ao/filter.m: Implemented filter initialisation when histout is composed of zeros or isempty. Filter initialisation is performed by utils.math.iirinit function

2008-12-05 17:28 luigi

- * +utils/@math/math.m: updated to include iirinit function

2008-12-05 17:28 luigi

- * +utils/@math/iirinit.m: a function to define the initial state of an IIR filter. It find the initial state by finding for the steady state solution of the state space representation of the IIR filter

2008-12-05 16:38 hewitson

- * @ao/scale.m: Bug fix to work with cdata which has different access permissions on the properties than data2D - we should make these consistent.

2008-12-05 16:38 hewitson

- * @ao/simplifyYunits.m: New method which simplifies yunits on demand.

The one parameter 'prefixes' decides whether you first want to move prefixes to the data before simplifying. If you don't mm will not cancel with m, for example.

2008-12-05 16:37 hewitson

- * @unit/: setVals.m, simplify.m, unit.m: Made a separate simplify method which gets called by the new ao/simplifyYunits method.

We also need a setVals method to allow for clearing the vals back to ones when the vals gets applied to the data.

2008-12-05 15:35 hewitson

- * @ao/filter.m: Some updates to how units are handled.

For parallel filter banks, all filters must have the same input and output units.

For serial filter banks, the output data will have units that represents the product of all filter units. No checking is done on the filter input units against the input data units; I think

this is too strict.

2008-12-05 14:22 ingo

- * @ao/ao.m: Update the predefined properties 'plotinfo' + 'procinfo' in the constructor to have the correct created time.

2008-12-05 14:11 ingo

- * @minfo/: minfo.m, setArgsmax.m, setArgsmin.m, setOutmax.m, setOutmin.m: Add setter function for the min/max of input arguments and min/max of output objects.

2008-12-05 11:47 hewitson

- * @plist/parse.m: A cleaned up version of parse.

2008-12-05 11:47 hewitson

- * @ao/: applymethod.m, cohere.m, diag.m, dsmean.m, export.m, find.m, fixfs.m, fromFcn.m, gapfilling.m, ifft.m, iplot.m, ln.m, lscov.m, mpower.m, mtimes.m, scale.m, straightLineFit.m, timedomainfit.m, var.m, whiten1D.m, abs.m, compute.m, conj.m, cpsd.m, curvefit.m, diff.m, exp.m, fft.m, fromPolyval.m, fromTSfcn.m, fromVals.m, fromWaveform.m, fromXYFfcn.m, heterodyne.m, hist.m, imag.m, join.m, lisovfit.m, log.m, lpsd.m, mdc1_x2acc.m, min.m, minus.m, mrdivide.m, offset.m, phase.m, plus.m, polyfit.m, setFs.m, setT0.m, setXunits.m, setY.m, sign.m, smoother.m, split.m, sumjoin.m, transpose.m, upsample.m, xcorr.m, angle.m, attachm.m, consolidate.m, cos.m, ctranspose.m, delay.m, detrend.m, dft.m, dopplercorr.m, downsample.m, dropduplicates.m, filter.m, filtfilt.m, firwhiten.m, fngen.m, fromDatafile.m, fromFSfcn.m, fromPzmodel.m, fromSpecWin.m, gapfillingoptim.m, ge.m, interp.m, interpmissing.m, iplotty.m, lcohere.m, lcpsd.m, lincom.m, linedetect.m, log10.m, ltfe.m, max.m, mdc1_ifo2acc_fd.m, mdc1_ifo2acc_inloop.m, mdc1_ifo2control.m, noisegen1D.m, norm.m, power.m, psd.m, rdivide.m, real.m, resample.m, sDomainFit.m, select.m, setDescription.m, setX.m, setYunits.m, setZ.m, sin.m, sort.m, spectrogram.m, spikecleaning.m, sqrt.m, svd.m, tan.m, tfe.m, times.m, uminus.m, whiten2D.m, zDomainFit.m, zeropad.m, eig.m, noisegen2D.m: These all use plist/parse now which is the enhanced version of combine.

This is a fairly big change so we should see how things go.

All tests pass and all UTPs.

2008-12-05 09:46 hewitson

* @ao/model_whitenoise.m: This has moved to the ao_models folder now.

2008-12-04 19:55 ingo

* @ao/abs.m, @ao/acos.m, @ao/angle.m, @ao/asin.m, @ao/atan.m, @ao/attachm.m, @ao/attachmdl.m, @ao/cohere.m, @ao/conj.m, @ao/consolidate.m, @ao/conv.m, @ao/cos.m, @ao/cov.m, @ao/cpsd.m, @ao/ctranspose.m, @ao/delay.m, @ao/det.m, @ao/detrend.m, @ao/dft.m, @ao/diag.m, @ao/diff.m, @ao/dopplercorr.m, @ao/downsample.m, @ao/dropduplicates.m, @ao/dsmean.m, @ao/eig.m, @ao/exp.m, @ao/extractmdl.m, @ao/fft.m, @ao/find.m, @ao/fixfs.m, @ao/fngen.m, @ao/gapfilling.m, @ao/gapfillingoptim.m, @ao/heterodyne.m, @ao/hist.m, @ao/iff.m, @ao/imag.m, @ao/interp.m, @ao/interpmissing.m, @ao/inv.m, @ao/lcohere.m, @ao/lcpsd.m, @ao/lincom.m, @ao/linedetect.m, @ao/log.m, @ao/log10.m, @ao/lpsd.m, @ao/lffe.m, @ao/lxspec.m, @ao/max.m, @ao/mean.m, @ao/median.m, @ao/min.m, @ao/mode.m, @ao/noisegen1D.m, @ao/noisegen2D.m, @ao/norm.m, @ao/phase.m, @ao/polyfit.m, @ao/psd.m, @ao/real.m, @ao/resample.m, @ao/rms.m, @ao/search.m, @ao/select.m, @ao/setDescription.m, @ao/setFs.m, @ao/setPlotinfo.m, @ao/setT0.m, @ao/setX.m, @ao/setXY.m, @ao/setXunits.m, @ao/setY.m, @ao/setYunits.m, @ao/setZ.m, @ao/sign.m, @ao/sin.m, @ao/smooth.m, @ao/sort.m, @ao/spectrogram.m, @ao/spikecleaning.m, @ao/split.m, @ao/sqrt.m, @ao/std.m, @ao/straightLineFit.m, @ao/sum.m, @ao/svd.m, @ao/tan.m, @ao/tfe.m, @ao/timeshift.m, @ao/upsample.m, @ao/var.m, @ao/whiten1D.m, @ao/whiten2D.m, @ao/zeropad.m, @ltpda_uoh/rebuild.m, @ltpda_uoh/setName.m, @ltpda_uoh/setProperties.m, @ltpda_uo/setName.m: If the user uses a list of output variables then will be the output data split up.

2008-12-04 19:51 ingo

* @ao/xcorr.m: Add the history of all input objects to a output object. If the user uses a list of output variables then split the output data.

2008-12-04 19:49 ingo

* @ao/xspec.m: Add the history of all input objects to a output object. Set the correct 'name' of the remaining objects (copy the remaining objects and set the correct name)

2008-12-04 19:47 ingo

* @ao/: x.m, y.m: Add the feature to index the data. For example:

a1.x(1:10) returns only the first ten x values

2008-12-04 19:46 ingo

- * @ltpda_uoh/ltpda_uoh.m: Set the access state of the addHistory method to 'protected'

2008-12-04 19:45 ingo

- * @ltpda_uo/save.m: Remove the addHistory part from the ltpda_uo/file because the ltpda_uoh class have its own save method which adds the history. --> It is possible to set the access state of the method addHistory to protected.

2008-12-04 19:43 ingo

- * @ltpda_uoh/save.m: Add a 'new' save method for the ltpda_uoh class because the we want to set the access state of the addHistory method to protected. Then it is not possible to call addHistory in the ltpda_uo class.

2008-12-04 19:41 ingo

- * @miir/miir.m: Change the order of the constructors for a better overview

2008-12-04 19:38 ingo

- * @pzmodel/pzmodel.m: Correct some description

2008-12-04 19:37 ingo

- * @ao/ao.m: Rename the objects name 'a' to 'obj'.

2008-12-04 19:24 hewitson

- * @unit/: rdivide.m, times.m: We don't automatically simplify any more. This will be pushed to new user methods to give them the choice over whether to simplify or not.

2008-12-04 19:17 hewitson

- * @unit/unit.m: We'll handle whether the prefix is multiplied or divided out later. For now we store the true value of the prefix, despite whether it's on the numerator or denominator.

2008-12-04 17:41 hewitson

* @ltpda_uoh/index.m: Bug fix in name formatting.

2008-12-04 17:41 hewitson

* @unit/: char.m, unit.m: Beginning the work on fixing the units.

Now no simplification is done on units with prefixes. The next step is to remove all simplification and put that to a new method.

More to come soon....

2008-12-04 17:24 mauro

* @ao/ao.m: Help harmonized

2008-12-04 13:55 hewitson

* @ao/fromModel.m: Some code moved from the models to here.

2008-12-04 12:04 hewitson

* @ao/filter.m: Bug fixing. The serial filtering was broken. Now it's working again.

See new test script.

2008-12-04 08:35 mauro

* @ao/ao.m: Help fixed to reflect the current behavior

2008-12-04 08:23 hewitson

* @ao/ao.m: New constructor

ao(values, plist)

2008-12-03 17:45 luigi

* @rational/rational.m: updated to include new method fromParfrac

2008-12-03 17:44 luigi

* @rational/fromParfrac.m: Conversion method from parfrac --> rational

2008-12-03 16:00 luigi

* @ao/filter.m: added the setunit properties for freq domain filtering

2008-12-03 15:52 luigi

* @ao/filter.m: some changes in freq domain parallel and added freq domain serial

2008-12-03 15:45 luigi

* @ao/filter.m: Corrected some mistakes in freq domain filtering and implemented freq domain filtering for a bank of parallel filters

2008-12-03 15:11 ingo

* @ltpda_uoh/index.m: bug fix: Got the wrong invars name. It is necessary to use sub2ind to get the correct variable name.

2008-12-03 10:26 hewitson

* @ao/abs.m: test commit

2008-12-03 10:19 hewitson

* @ao/: abs.m: test commit

2008-12-03 10:14 hewitson

* @ao/: abs.m: test commit

2008-12-03 10:10 hewitson

* @ao/abs.m: no message

2008-12-03 09:15 hewitson

* @ao/: offset.m, scale.m: Two new methods to simplify two standard user operations.

2008-12-03 08:50 hewitson

* @plist/parse.m: Small bug fix to be more robust against vectors.

2008-12-02 20:33 adrien

* @ssm/simulate.m: avoids some pointless division by zero.

2008-12-02 20:20 ingo

- * @ao/xspec.m: New behavior of the history (ass always the history of all input objects). Don't copy only the handle of the remaining objects because the 'name' have the wrong content 'tfe(a5->a6)' have switched to 'tfe(a5->a6)'

2008-12-02 20:17 ingo

- * @ao/tfe.m: Index always the output objects.

2008-12-02 20:01 adrien

- * @ssm/: ssmFromBuiltinSystem.m, ssm.m: ssmFromBuilt-in is slightly different. local template give directly a ssm object [from a plist] and option plist are used locally, so it is simpler to add and maintain new models.

2008-12-02 19:57 adrien

- * @ssm/minreal.m: minreal was updated for new object format

2008-12-02 16:22 luigi

- * @ao/zDomainFit.m: fit frequency response in z domain Output an Ao with model freq resp and miir corresponding filter in the procinfo the function is based on utils.math.autodfit

2008-12-02 13:54 ingo

- * @ltpda_uo/ltpda_uo.m: Set the access status of retrieve to 'public' because the Repo GUI needs this function to get a collection of objects. A constructor method cannot get a collection of objects! ATTENTION: The retrieve method doesn't add history to the objects. We will discuss this at a meeting on 11.12.2008

2008-12-02 13:29 luigi

- * @parfrac/display.m: Corrected a bug in the display of poles

2008-12-02 13:24 luigi

- * +utils/@math/autodfit.m: modified the final definition of rmse

2008-12-02 13:12 luigi

- * +utils/@math/autocfit.m: a modification in the output of rmse

2008-12-02 13:10 luigi

* +utils/@math/stopfit.m: corrected a wrong assumption

2008-12-02 12:53 luigi

* @ao/sDomainFit.m: Corrected 2 bugs - now works properly

2008-12-02 10:01 hewitson

* @launchBay/: buildMainfig.m, constructor.graffle,
constructor.png, specwinViewer.graffle, specwinViewer.png:
Updates to new launch bay.

2008-12-02 09:59 hewitson

* @constructor/buildMainfig.m, @launchBay/buildMainfig.m: Some
small updates.

2008-12-02 09:58 hewitson

* @specwinViewer/: buildMainfig.m, cb_mainfigClose.m, cb_plot.m,
cb_plotFreq.m, cb_plotTime.m, cb_selectWindow.m, plotWindow.m,
specwinViewer.m: New version of specwin viewer.

2008-12-02 09:04 hewitson

* @launchBay/: LPFlogo.gif, cb_mainfigClose.m, launchBay.m,
modelViewer.graffle, modelViewer.png, repogui.graffle,
repogui.png, images/LPFlogo.jpg, images/ltlda_blue.jpg,
buildMainfig.m, launchBay.jar, sigBuilder.graffle,
sigBuilder.png: The beginnings of a new launchbay in the new
class style.

2008-12-02 09:02 hewitson

* @constructor/: buildMainfig.m, buildObj.m, cb_mainfigClose.m,
cb_selectClass.m, cb_selectSet.m, constructor.m: A new version of
constructor helper built in the new class style.

2008-12-01 20:55 nicola

* @plist/: g_constructor.m, plist.m: 'False' plist method added;
this is used by the GUI to add scalar/vector/matrix or string
objects to the LTPDA workspace, to be passed among blocks.

It will be discarded by the buildLibrary function when updating

the method blocks for the plist class, since its block will appear elsewhere (in the root/Input folder).

2008-12-01 17:50 luigi

- * @ao/sDomainFit.m: A function to fit a model to a frequency response AO. It output an Ao with the frequency response of the model function and a parfrac model in the procinfo. Still need to be tested!!!

2008-12-01 17:30 luigi

- * +utils/@math/: autocfit.m, autodfit.m: minor changes...

2008-11-30 18:56 hewitson

- * @modelViewer/: buildObject.m, buildParamsPanel.m, cb_selectModel.m, getParamsFromPanel.m: Changes to make SSM models work.

2008-11-30 18:55 hewitson

- * @ssm/getBuiltInModels.m: A new public static method to get a list of built-in models.

2008-11-30 18:55 hewitson

- * @ssm/ssm.m: Some fixes to the help and added public static method to get built-in models list.

2008-11-30 18:54 hewitson

- * @ao/: ao.m, fromModel.m: Changed the name of the AO model constructor to match the ssm class. Since the AO models are not really used so far, I want to get a uniform naming convention.

2008-11-30 17:16 hewitson

- * @modelViewer/: buildMainfig.m, buildObject.m, buildParamsPanel.m, cb_buildModel.m, cb_selectModel.m, cb_typeModel.m, getParamsFromPanel.m, modelViewer.m: Added some more functionality. It actually does something now.

2008-11-30 13:56 hewitson

- * @modelViewer/: modelViewer.m, buildMainfig.m, buildParamsPanel.m, cb_mainfigClose.m, cb_selectModel.m, cb_selectModelType.m: The beginnings of a simple model viewer GUI. So far only works for AO

models and doesn't really do anything.

Once it's clear how the AO models will work, we need to update SSM models, and we can also make built-in models for other user classes, for example, pzmodels.

2008-11-28 19:14 adrien

- * @unit/unit.m: Now units can be creating using a double array giving the exponent of each unit in utils.supportedUnits

2008-11-28 18:28 adrien

- * @ssm/ssm.m: empty object has an empty history validate does not copy the object

2008-11-28 18:27 adrien

- * @ssm/simulate.m: copy is done inside the function now

2008-11-28 18:27 adrien

- * @ssm/reduce_model.m: handles cases when variable is not user defined

2008-11-28 18:26 adrien

- * @ssm/double.m: slightly better

2008-11-28 16:52 luigi

- * @miir/fromParfrac.m: modified to work with the new parfrac class properties

2008-11-28 16:38 luigi

- * +utils/@math/pfresp.m: Modified to support poles multiplicity higher than one in s-domain. Now the function is used to calculate response of parfrac class objects

2008-11-28 16:31 luigi

- * @parfrac/: copy.m, display.m, fromPzmodel.m, fromRational.m, fromResidualsPolesDirect.m, getlowerFreq.m, getupperFreq.m, parfrac.m, resp.m: Parfrac class modified: - full s-domain support - added pmul field reporting the multiplicity of each pole

2008-11-28 16:16 ingo

- * @ao/copy.m, @ltpda_uoh/addHistory.m, @ltpda_uoh/fromRepository.m, @mfir/copy.m, @miir/copy.m, @parfrac/copy.m, @plist/append.m, @plist/combine.m, @plist/copy.m, @plist/pset.m, @pzmodel/copy.m, @rational/copy.m, @ssm/copy.m, @timespan/copy.m: Remove the setting of the 'created' and 'creator' in the copy functions. The 'created' will be updated if a history step is added for user objects with history and for the plist in the functions: append, combine, remove and pset. The 'creator' is updated only in the methods: fromFile and fromRepository because there are no other cases that a user changed who works with the object.

2008-11-28 16:11 ingo

- * @miir/miir.m: Add new constructor: f = miir(<ltpda_uoh>-object, plist-object) This constructor is necessary for rebuilding miir objects. It is the same behavior as in the AO class

2008-11-28 16:03 ingo

- * @minfo/minfo.m: Set new default values to argsmax and outmax

2008-11-28 15:45 ingo

- * @plist/plist2cmds.m: Add feature to convert a 'struct' to a set of commands.

2008-11-28 15:44 ingo

- * @parfrac/fromResidualsPolesDirect.m: bug fix: typo

2008-11-28 15:43 ingo

- * @minfo/minfo.m: Add two new properties: outmin and outmax. This properties should define the minimum and maximum of outputs.

2008-11-28 15:40 ingo

- * @ltpda_uoh/fromFile.m: remove comment out source code

2008-11-28 15:37 ingo

- * @ltpda_uo/save.m: Add only history to 'ltpda_uoh' objects because a plist doesn't have a history.

2008-11-28 15:36 ingo

- * @ltpda_uo/ltpda_uo.m: Set the retrieve method to access level protected because the user should use the constructors to get retrieve an object. In case that this method doesn't add history should user not use this method.

2008-11-28 15:32 ingo

- * @ao/ao.m: Remove useless command

2008-11-28 15:31 ingo

- * +utils/@mysql/insert.m: Add error case

2008-11-28 13:38 hewitson

- * @ltpda_uoh/fromRepository.m: If binary retrieval fails, XML retrieval is tried.

2008-11-28 11:28 hewitson

- * @plist/parse.m: A more robust parser.

2008-11-28 11:26 hewitson

- * @pzmodel/resp.m: Bug fix for models with no poles and no zeros.

2008-11-28 09:45 mauro

- * @ao/ao.m: Minor fix in the help

2008-11-28 09:25 hewitson

- * @pzmodel/: mrdivide.m, mtimes.m, rdivide.m, times.m: Added more operators. The division needs checked. Just for convenience I overloaded mrdivide and mtimes; they just call rdivide and times.

2008-11-28 09:07 hewitson

- * @pzmodel/simplify.m: bug fixing.

2008-11-28 08:58 hewitson

- * @pzmodel/simplify.m: A simplify method which cancels like poles and zeros from a pzmodel.

2008-11-28 08:52 hewitson

- * @pzmodel/times.m: Removed some unnecessary code.

2008-11-28 08:46 hewitson

- * @pzmodel/times.m: Added times operator for pzmodels.

We should add such a method to other TF classes. We can also add rdivide method, and for parfrac we can make a plus operator.

2008-11-28 08:44 hewitson

- * +utils/@helper/collect_values.m: Extended to promote constant values to any kind of ltpda_uoh. The type is chosen as the class of the last object in the argument list. The default is 'ao'.

2008-11-28 08:43 hewitson

- * @pzmodel/pzmodel.m: New constructor that allows making a pzmodel from a constant value. The model has no poles or zeros, just a gain.

2008-11-27 21:59 ingo

- * @ao/index.m, @ltpda_uoh/index.m, @ltpda_uoh/ltpda_uoh.m: Move the index method to the abstract class 'ltpda_uoh'. Thus it is possible for the other classes which inherits this class to use the method.

2008-11-27 15:28 hewitson

- * @ltpda_uo/submit.m: Some string fixing is performed on the meta data fields before submitting.

2008-11-27 15:28 hewitson

- * @ao/display.m: Restrict the output for cdata objects data samples.

2008-11-27 11:39 mauro

- * @pzmodel/pzmodel.m: Added input and output units for the constructor based on poles,zeros,gain. Default value is set to 'empty'

2008-11-26 22:53 adrien

- * @ssm/validate.m: length was replaced by numel

2008-11-26 22:52 adrien

- * @ssm/: reduce_model.m, ssmFromBuiltinSystem.m: Speeding up avoiding doubles calls for 'validate' and the addHistory

2008-11-26 22:50 adrien

- * @ssm/simulate.m: Some bug corrected with input aos

2008-11-26 22:46 adrien

- * @ssm/modifitimestep.m: experimental - much faster - computation of exponential integral. Still to be modified for further testing

2008-11-26 22:44 adrien

- * @ssm/isstable.m: more error margin on eigenvalues. Takes A^{1024} to evaluate eigenvalues in discrete case

2008-11-26 18:54 adrien

- * @ssm/simulate.m: output format bug

2008-11-26 17:43 luigi

- * +utils/@math/eigcsd.m: some changes towards a more general function

2008-11-26 14:45 ingo

- * +utils/@helper/ltpda_userclasses.m, @ltpda_filter/ltpda_filter.m, @ltpda_tf/ltpda_tf.m, @ltpda_tf/setlunits.m, @ltpda_tf/setOunits.m, @parfrac/parfrac.m, @pzmodel/pzmodel.m, @rational/rational.m: rename abstract class 'tf' to 'ltpda_tf'

2008-11-26 11:42 mauro

- * @miir/miir.m: Help fixed Added "Name" parameter into the plist for "From AB" constructor Cosmetic changes

2008-11-26 11:25 hewitson

- * @ao/: ao.m, fromXYFcn.m: Added a new 'From XY Function' parameter set and constructor to complement the other time-series and frequency-series functions.

UPT RELEVANT ??

2008-11-26 11:17 mauro

- * @mfir/mfir.m: Help fixed Added "Name" parameter into the plist for "From A" constructor Cosmetic changes

2008-11-26 11:11 mauro

- * @pzmodel/resp.m: Bug fixed. We should check the examples more carefully (and add more!)

2008-11-26 11:05 mauro

- * @pzmodel/pzmodel.m: Help fixed Cosmetic changes

2008-11-25 19:02 mauro

- * @ao/ao.m: Typo fixed

2008-11-25 18:46 nicola

- * @plist/string.m: Bug fix.

2008-11-25 18:11 ingo

- * @mfir/mfir.m: Remove the cvs-version string from the static function VEROUT

2008-11-25 17:11 nicola

- * @miir/miir.m: Fix to accept a parfrac obj and the FS.

2008-11-25 17:00 mauro

- * @timespan/display.m: Bug fixed

2008-11-25 16:47 hewitson

- * @ao/: lscov.m, straightLineFit.m: Added ability to put in weights.

2008-11-25 16:11 hewitson

- * @ao/straightLineFit.m: First version of a straight line fitter that just makes a simpler interface to lscov.

2008-11-25 16:08 hewitson

- * @ao/lscov.m: Checks the shape of the y data to fit and makes sure it matches the fit matrix.

2008-11-25 15:56 hewitson

* @ao/iplot.m: Some work on y-errorbars for cdata objects.

2008-11-25 15:38 ingo

* @cdata/getY.m: Return always a column vector. Even if the data is stored in a row vector.

2008-11-25 14:34 mauro

* @mfir/mfir.m: Help fixed

2008-11-25 12:42 luigi

* +utils/@math/eigcsd.m: Corrected the phase of eigenvectors in order to obtain an hermitian eigenvectors matrix

2008-11-25 12:07 ingo

* @ao/filter.m, @mfir/fromA.m, @mfir/fromAO.m, @miir/fromAB.m, @miir/mkbandpass.m, @miir/mkbandreject.m, @miir/mkhighpass.m, @miir/mklowpass.m, @miir/redesign.m: Add 'internal' switch to suppress history.

2008-11-24 22:11 ingo

* @ltpda_filter/setHistout.m, @miir/setHistin.m: This function works now with plists and the 'internal' switch.

2008-11-24 22:10 ingo

* @minfo/update_struct.m: If the modifier field doesn't exist then set this field to false (default is true)

2008-11-24 22:09 ingo

* @pzmodel/pzmodel.m, @ltpda_filter/ltpda_filter.m: rename 'ltpda_iounits' to 'tf'

2008-11-24 21:11 adrien

* @ssm/simulate.m: Simulate is not up to 14 times faster for long simulation on large systems (see NoiseTest.m) than the old simulate2.m .

I use sparse matrices for the iterative multiplication iif the

sparsity factor of the matrix is shown to be higher than 50%.

This brings improvements on systems whose timestep is not modified after being assembled.

2008-11-24 20:39 adrien

* @ssm/simulate.m: Minv was not supposed to be there in the new version.

2008-11-24 20:00 adrien

* @ssm/resp.m: ssm impulse response - needs control toolbox for now

2008-11-24 19:59 adrien

* @ssm/: ssm2miir.m, ssm2pzmodel.m, ssm2rational.m, ssmFromParfrac.m, ssmFromPzmodel.m, ssmFromRational.m: some translators ssmFromParfrac is not working yet.

2008-11-24 19:59 adrien

* @ssm/: simulate2.m, ssm.m: the Old version of simulate is available as 'simulate2' in case of problems

2008-11-24 19:58 adrien

* @ssm/simulate.m: ssm/simulate speeded up by a factor 3.6.

Iteration uses matrices instead of block defined matrices, speeding up the process...

2008-11-24 18:12 ingo

* @ao/update_struct.m, @cdata/update_struct.m, @fsdata/update_struct.m, @history/update_struct.m, @mfir/update_struct.m, @miir/update_struct.m, @minfo/update_struct.m, @param/update_struct.m, @plist/update_struct.m, @provenance/update_struct.m, @pz/update_struct.m, @pzmodel/update_struct.m, @specwin/update_struct.m, @ssm/update_struct.m, @time/update_struct.m, @timespan/update_struct.m, @tsdata/update_struct.m, @unit/update_struct.m, @xydata/update_struct.m, @xyzdata/update_struct.m: Bug fix: Some functions doesn't set the version '1.9.2' in the update part
1.9.1 --> 1.9.2 Add the update part 1.9.3 --> 1.9.4

2008-11-24 17:47 ingo

* +utils/@helper/generic_getInfo.m: It is not possible to call a constructor in a modifier mode --> the property of the minfo object is false.

2008-11-24 17:44 ingo

* @ao/atan2.m, @ao/cat.m, @ao/char.m, @ao/complex.m, @ao/compute.m, @ao/consolidate.m, @ao/conv.m, @ao/cov.m, @ao/demux.m, @ao/display.m, @ao/fngen.m, @ao/fs.m, @ao/gapfilling.m, @ao/ge.m, @ao/gt.m, @ao/heterodyne.m, @ao/index.m, @ao/iplot.m, @ao/iplotyy.m, @ao/le.m, @ao/len.m, @ao/lincom.m, @ao/linedetect.m, @ao/lisovfit.m, @ao/ln.m, @ao/lscov.m, @ao/lt.m, @ao/ltf_plan.m, @ao/md5.m, @ao/plot.m, @ao/spectrogram.m, @ao/spikecleaning.m, @ao/split.m, @ao/string.m, @ao/t0.m, @ao/timedomainfit.m, @ao/validate.m, @ao/x.m, @ao/xcorr.m, @ao/xunits.m, @ao/y.m, @ao/yunits.m, @cdata/char.m, @cdata/display.m, @cdata/getY.m, @data2D/char.m, @data2D/getX.m, @data2D/getY.m, @data3D/getZ.m, @fsdata/display.m, @history/char.m, @history/display.m, @history/dotview.m, @history/getNodes.m, @history/getObjectClass.m, @history/hist2dot.m, @history/hist2m.m, @history/plot.m, @history/rebuild.m, @history/string.m, @ltpda_filter/resp.m, @ltpda_obj/eq.m, @ltpda_obj/isprop.m, @ltpda_obj/ne.m, @ltpda_uoh/fromFile.m, @ltpda_uoh/rebuild.m, @ltpda_uoh/report.m, @ltpda_uoh/type.m, @ltpda_uo/retrieve.m, @ltpda_uo/submit.m, @mfir/char.m, @mfir/display.m, @mfir/mfir.m, @mfir/oldresp.m, @mfir/redesign.m, @mfir/string.m, @miir/char.m, @miir/display.m, @miir/oldresp.m, @miir/string.m, @minfo/char.m, @minfo/display.m, @minfo/update_struct.m, @param/char.m, @param/display.m, @param/mux.m, @param/string.m, @parfrac/char.m, @parfrac/display.m, @parfrac/getlowerFreq.m, @parfrac/getupperFreq.m, @parfrac/resp.m, @parfrac/string.m, @plist/char.m, @plist/display.m, @plist/find.m, @plist/isparam.m, @plist/nparams.m, @plist/resp.m, @plist/string.m, @provenance/char.m, @provenance/display.m, @provenance/string.m, @pz/char.m, @pz/cp2iir.m, @pz/cz2iir.m, @pz/display.m, @pz/resp.m, @pz/rp2iir.m, @pz/rz2iir.m, @pz/string.m, @pzmodel/char.m, @pzmodel/display.m, @pzmodel/fngen.m, @pzmodel/getlowerFreq.m, @pzmodel/getupperFreq.m, @pzmodel/pzm2ab.m, @pzmodel/resp.m, @pzmodel/string.m, @pzmodel/tomfir.m, @pzmodel/tomiir.m, @rational/char.m, @rational/display.m, @rational/getlowerFreq.m, @rational/getupperFreq.m, @rational/resp.m, @rational/string.m, @specwin/char.m, @specwin/display.m, @specwin/plot.m, @specwin/string.m, @time/char.m, @time/display.m, @time/format.m, @time/getTimezones.m, @time/string.m, @timespan/char.m,

@timespan/display.m, @timespan/string.m, @tsdata/display.m, @tsdata/getX.m, @unit/display.m, @unit/factor.m, @unit/string.m, @xydata/display.m, @xyzdata/char.m, @xyzdata/display.m: Set the property 'modifier' of the minfo object to false. It is not possible to call this functions with a 'modifier' command.

2008-11-24 16:42 ingo

* @plist/remove.m: Add copy command in case of deep copy.

2008-11-24 16:37 ingo

* @ltpda_obj/setVersion.m, @ltpda_uo/setCreated.m: Add copy command in case of deep copy.

2008-11-24 16:15 ingo

* @provenance/update_struct.m: Bug fix: copy past error.

2008-11-24 15:43 ingo

* @time/time.m: Add a 'remark' to the help information.

2008-11-24 15:20 mauro

* @ao/complex.m: Does not check for x data field if working with cdata Help fixed

2008-11-24 15:08 ingo

* @tsdata/tsdata.m: Bug fix: Don't set the x-values before decided if the data can be collapsed.

2008-11-24 15:07 ingo

* @tsdata/fromStruct.m: It is necessary for a lot of functions to collapse the x-values if possible.

2008-11-24 12:06 adrien

* @ssm/simulate.m: changes, can evaluate a termination condition for the simulation. Bugfix because this was not supposed to be implemented and was partly there, causing the simulations to crash.

2008-11-23 13:54 hewitson

* @ao/: ao.m, fromModel.m: Adapted to work (hopefully) with the new

built-in model system. Needs testing!

UTP RELEVANT ??

2008-11-23 13:53 hewitson

* @ao/getBuiltinModels.m: New public static method to get a list of the built-in models.

2008-11-23 13:02 hewitson

* @ao/: mdc1_fd_Sdf.m, mdc1_fd_Ssus.m, mdc1_fd_Tdf.m, mdc1_fd_Tsus.m, mdc1_fd_df_controller.m, mdc1_fd_dynamics.m, mdc1_fd_sus_controller.m, mdc1_input_noises.m: These are being moved to make way for the new modular ao model system.

2008-11-21 19:27 nicola

* @ao/display.m: Undone last fix: always displaying, even without an output variable, creates a mess in the GUI, flooding the shell with displays every time the user selects something in the list of objects or the window is updated. Maybe an almost identical method - just with no displays - can be coded for these programmatic uses?

2008-11-21 19:04 adrien

* @ssm/: ssm2miir.m, ssm2pzmodel.m, ssm2rational.m, ssmFromParfrac.m, ssmFromPzmodel.m, ssmFromRational.m: working on some converters. These are unfinished but they do not break any existing feature. ongoing work.

2008-11-20 23:52 adrien

* @ssm/ssmFromBuiltinSystem.m: built-in names are now case insensitive

2008-11-20 23:52 adrien

* @unit/unit.m: now accepts a list of string, ex : unit('m', 'm s') code to optimize. [UTP relevant?]

2008-11-20 18:27 ingo

* @minfo/: minfo.m, setModifier.m, setMversion.m: Add 'modifier' property and the set function. The default value is 'true'

2008-11-20 18:26 ingo

* @ao/: cohere.m, cpsd.m, lcohere.m, lcpd.m, ltfe.m, tfe.m: Set the 'modifier' property of the minfo object to false. Throw an error if no output is defined.

2008-11-20 17:59 luigi

* +utils/@math/eigcsd.m: Greatly enhanced the performance of the numerical estimator - symbolic calculations are in principle no more necessary

Enhanced the computing speed of the symbolic calculations - time requirements are reduced of a factor 6 or 7

2008-11-20 13:30 ingo

* @param/char.m: Some special information for provenance objects.

2008-11-20 13:30 ingo

* @provenance/update_struct.m: Set 'N/A' to the new fields if they are not present in the file.

2008-11-19 19:45 ingo

* @data2D/applyoperator.m: If one object contains only one number and the other object more than one then return always the object which have more data values.

2008-11-19 17:10 ingo

* @ltpda_uoh/report.m: Mask the special characters '<', '>' and '&' with '<'; '>' with '>'; '&' with '&';

2008-11-19 17:10 luigi

* +utils/@math/: autocfit.m, autodfit.m: Bug fixed - when external poles are provided the function set internally the order of the fitting function and run the loop only for that order

2008-11-19 16:42 luigi

* +utils/@math/: psd2tf.m, psd2wf.m: Bug fixed $np \rightarrow np(:,1)$

2008-11-19 16:42 mauro

* @provenance/provenance.m: - Added into the application variables informations about all the installed toolboxes - provenance

constructor fixed correspondingly ---> UTP RELEVANT!!!!

2008-11-19 13:03 luigi

- * +utils/@math/: vcfite.m, vdfite.m: Changed from root mean squared error to the normalized root mean squared error

2008-11-19 12:37 luigi

- * +utils/@math/cpf.m: Solved a problem with the symbolic function 'solve' by using 'eig' instead

2008-11-19 12:36 ingo

- * @unit/unit.m: 1.) Remove shift problem to get the value for the prefix. 2.) Store the information of the prefix only in the 'vlas' field

2008-11-19 12:34 ingo

- * @unit/: rdivide.m, times.m: As the description describes it is now possible to multiply/divide scalars to units.

2008-11-19 12:32 ingo

- * @unit/power.m: some adaption to the header

2008-11-19 12:31 ingo

- * @unit/plus.m: even the sum of 'mm' and 'm' is not possible. In case of storing the prefix in 'vals' it is not enough to look at the unit string

2008-11-19 12:29 ingo

- * @unit/mtimes.m: mtimes and times should have the same behavior. This is the case why mtimes calls times.

2008-11-19 12:29 ingo

- * @unit/mrdivide.m: mrdivide and rdivide should have the same behavior. This is the case why mrdivide calls rdivide.

2008-11-19 07:35 mauro

- * @ao/ao.m: Help fixed

2008-11-18 20:28 ingo

* +utils/@helper/ltpda_classes.m: The new version doesn't work with makeToolbox -> switch to the old version.

2008-11-18 20:19 ingo

* @ltpda_uo/save.m: Add the 'save' history only to the saved object and not the user object. For example
>>save(obj, 'file.xml')
This case doesn't change obj but the saved object on disc contains the save-history step

2008-11-18 20:17 ingo

* @ao/ao.m: Remove the default value for the yunits

2008-11-18 20:16 ingo

* @ao/var.m: bug fix: Change the xunits only if this field exist.

2008-11-18 20:14 ingo

* +utils/@helper/ltpda_classes.m: With the MATLAB command 'meta.class.getAllClasses' is this function always up to date. It is not necessary to change this function if we add a new class to 'ltpda'

2008-11-18 20:12 ingo

* @tsdata/fromStruct.m: Remove the collapse function because then is the read object not the same as the stored object.

2008-11-18 18:20 ingo

* @plist/string.m: Remove the semicolon at the end of the hist2m command

2008-11-18 17:08 luigi

* @ao/whiten2D.m: Noise whitener for two cross correlated time series data

2008-11-18 17:06 luigi

* +utils/@math/: psd2tf.m, psd2wf.m: corrected an error in spolesopt definition for the second fit step of the 2Dim case

2008-11-18 13:47 luigi

* @ao/whiten1D.m: corrected an error in the definition of a parameter

2008-11-18 13:29 luigi

* @ao/: noisegen1D.m, noisegen2D.m: corrected an error in the definition of one parameter

2008-11-18 10:48 luigi

* +utils/@math/: autocfit.m, autodfit.m, psd2tf.m, psd2wf.m:
Removed unused old conditiono 'nrmsecond'

2008-11-17 17:57 luigi

* @ao/whiten1D.m: Added new stopfit conditioning options

2008-11-17 17:52 luigi

* +utils/@math/: autocfit.m, autodfit.m, psd2tf.m, psd2wf.m,
wfun.m: changed one weigth option $\text{abs}(y).^2$ --> $\text{sqrt}(\text{abs}(y))$ in
wfun.

Corrected help of the relative functions

2008-11-17 17:50 luigi

* @ao/: noisegen1D.m, noisegen2D.m: Added options for stop fit
conditioning

2008-11-17 17:10 luigi

* +utils/@math/math.m: updated for the functions variations

2008-11-17 17:09 luigi

* +utils/@math/: autocfit.m, autodfit.m: Update to the new stop
conditions and adapted to the use with the new versions of vdfit
and vcfit. Performace improoved

2008-11-17 17:06 luigi

* +utils/@math/: psd2tf.m, psd2wf.m: Adapted to the new stop
fitting conditions (rmse variation)

2008-11-17 17:05 luigi

* +utils/@math/startpoles.m: Set to -1 the real starting pole for continuous odd poles

2008-11-17 17:04 luigi

* +utils/@math/stopfit.m: Removed the stop condition on residuals log variation and added the condition on the variation of the root mean squared error

2008-11-17 17:03 luigi

* +utils/@math/: vcfite.m, vdfite.m: Corrected a bug not allowing to fit peaked functions. Performance highly improved

2008-11-17 13:53 adrien

* @ssm/simulate.m: some cleaning up

2008-11-17 11:40 hewitson

* @ao/fromVals.m: Tries to do something sensible if the user doesn't specify the dtype.

2008-11-17 11:39 hewitson

* @ao/display.m: Always display, even if there is an output variable.

2008-11-14 18:46 mauro

* @ao/: cos.m, exp.m, log.m, log10.m, sign.m, sin.m, tan.m: Set output units to 'empty' as they should be. Notice that this is not preventing people from inserting in the argument units with wrong dimensions ;)

2008-11-14 18:13 mauro

* @ao/: inv.m, var.m: Set units according to operator

2008-11-14 18:08 ingo

* @ao/filter.m: 1.) Throw an error if the input are multiple AOs and multiple iir filter 2.) Add header information that the the input filter object with the history values filled in are always stored with a plist in the 'procinfo' property of the AO

2008-11-14 18:03 ingo

- * @ao/applyoperator.m: Don't apply 'power' and 'mpower' to the yunits if the second input is not a number

2008-11-14 18:00 ingo

- * @miir/miir.m: Add 'From Parfrac' to the sets.

2008-11-14 16:47 hewitson

- * @ao/ao.m: A slight change of logic for the call:

```
a = ao(b, plist('filename', 'foo.xml'))
```

if the file exists, it is loaded. If not, then b is copied to a.

This is needed to support old history trees which don't have history steps for save().

2008-11-14 16:46 hewitson

- * @ltpda_uo/save.m: This now adds history.

This is necessary because if you want to reproduce a long analysis and you have the original source file, but you had to some save/load to/from disk in the course of the analysis, then you need to have the save commands. Otherwise, the source file and the history are not enough to complete the analysis.

2008-11-14 14:38 hewitson

- * @ao/filter.m: Bug fix in fir filtering code.

2008-11-14 12:32 ingo

- * @ao/split.m: combine the input plists. This is necessary if the input are more than one plists.

2008-11-14 12:29 ingo

- * @plist/plist.m: Don't copy the input plist if the plist have the following keys 'conn' and 'hostname'

2008-11-14 09:48 mauro

- * @ao/ao.m: Added "From Model" to the set list

2008-11-13 19:46 hewitson

* @ao/filter.m: Make this a bit more robust to wrong shaped vectors.

2008-11-13 15:04 luigi

* +utils/@math/: vcfrit.m, vdfrit.m: Returned to the \ operator (instead of pinv function) hoping to increase the speed

2008-11-13 13:48 luigi

* @ao/noisegen2D.m: Noise generator for 2dimensional systems. Input two white AOs and a pilst with the parameter and 4 models for the cross-spectrum It is based on utils.math.psd2tf

2008-11-13 12:23 luigi

* @ao/filter.m: Solved a problem with the assignement of the Histout for parallen filtering

2008-11-12 21:09 hewitson

* @ltpda_uoh/report.m: Wrong category.

2008-11-12 17:37 hewitson

* @ao/copy.m: Changed so that the procinfo is also copied. We have to think if this is really what we want.

2008-11-12 17:02 hewitson

* @ao/lxspec.m: Here the history was being switched incorrectly.

2008-11-12 17:01 hewitson

* @ao/index.m: Sets the name of the output ao properly.

2008-11-12 17:00 hewitson

* +utils/@helper/generic_getInfo.m: Bug fix plus it works for abstract class methods now.

2008-11-12 17:00 hewitson

* @ao/find.m: typo fixed in the applied name.

2008-11-12 15:05 luigi

* +utils/@math/math.m: added eigcsd.m to the list

2008-11-12 15:04 hewitson

- * @ao/ao.m: A fix for the AO constructor which only works at the moment because we have no AO constructor requiring an input AO and a plist.

In other words:

`a = ao(b,plist)`

doesn't exist where b is an AO. In this case, the plist is ignored and the AO is copied.

If b is another type of ltpda_uoh object, the object is ignored, and the AO is recreated from the plist.

2008-11-12 10:56 hewitson

- * @ao/: mdc1_fd_Sdf.m, mdc1_fd_Ssus.m: Bug fixes to call the models properly.

2008-11-12 10:25 hewitson

- * @history/hist2m.m: Adds a comment at the end of each command line that gives the class of the command. Useful for checking and debugging.

2008-11-11 17:09 luigi

- * @ao/noisegen1D.m: New method for noise generation with a given spectrum - using utils.math.psd2tf

2008-11-11 16:50 luigi

- * +utils/@math/psd2tf.m: Minor change in the output of data for 1dim

2008-11-11 15:20 luigi

- * +utils/@math/psd2tf.m: Updated new functionality and removed the mixed identification case (s-domain fit --> z-domain output)

2008-11-11 15:19 luigi

- * +utils/@math/psd2wf.m: Only minor changes...

2008-11-11 15:16 hewitson

* @ltpda_uo/setName.m: Bug fix in this code for setting the name of a plist.

2008-11-11 13:24 luigi

* @ao/whiten1D.m: Added the parameter defining the fit tolerance

2008-11-11 12:07 luigi

* @ao/whiten1D.m: Changed some options to run with latest modifications to psd2wf

2008-11-10 17:42 luigi

* +utils/@math/: vcf.m, vdfit.m: Substituted complex j with 1i

2008-11-10 16:48 luigi

* +utils/@math/psd2wf.m: corrected an error in the fitting step after the all pass filter

2008-11-10 16:40 luigi

* +utils/@math/: pfallpsyms.m, pfallpsymz.m: minor changes...

2008-11-10 16:39 luigi

* +utils/@math/: pfallps.m, pfallpz.m: Highly improved the accuracy of numerical all pass filters

2008-11-10 13:07 luigi

* +utils/@math/psd2wf.m: added the possibility to input external weights

2008-11-10 12:59 luigi

* +utils/@math/: autocfit.m, autodfit.m, startpoles.m, wfun.m: added the possibility to input external weights and external starting poles

2008-11-10 12:54 hewitson

* @ao/whiten1D.m: This method now runs. Not sure it makes sensible analysis though.

2008-11-10 12:54 hewitson

* +utils/@math/psd2wf.m: Bug fixes.

2008-11-10 12:35 ingo

* @parfrac/parfrac.m, @rational/rational.m: - remove undefined prototypes - set access of the functions from* to private - add missing sets to the static function SETS

2008-11-10 12:13 hewitson

* +utils/@math/math.m: We should always declare methods with
varargin varargout

so that if the method changes, we don't need to change the declaration.

The rest should be changed in this class!

2008-11-10 12:08 hewitson

* @ao/filter.m: The output of MATLAB's filter is the wrong shape for our getY. How was this not seen by anyone before now?

2008-11-10 12:01 hewitson

* @ao/whiten1D.m: Start of a 1D whiten method that uses
utils.math.psd2wf.

Still incomplete and needing testing.

2008-11-10 12:01 hewitson

* @ao/filter.m: Adds filters to procinfo of object.

NEEDS TESTED

2008-11-07 15:29 luigi

* +utils/@math/autocfit.m: Increased function flexibility. Now you can fit whitout stopfit conditions

2008-11-07 15:28 luigi

* +utils/@math/autodfit.m: fixed some problems

2008-11-07 13:46 luigi

- * +utils/@math/autodfit.m: improved function flexibility. Now it is possible to choose between full auto mode and a simple fitting loop stopping at Nmaxiter

2008-11-07 12:11 luigi

- * +utils/@math/psd2tf.m: added the possibility of input the 4 terms of the cross spectral matrix

2008-11-07 12:10 luigi

- * +utils/@math/psd2wf.m: minor fixes in the help

2008-11-07 11:27 luigi

- * +utils/@math/psd2wf.m: Added the possibility for the input of the 4 elements of the cross spectral matrix

2008-11-07 11:09 luigi

- * +utils/@math/eigcsd.m: Name changed from eigpsd to eigcsd added the possibility of input the full 2dim cross-spectral matrix elements

2008-11-06 13:55 hewitson

- * @ao/: ao.m, fromModel.m, model_whitenoise.m: Added a new model which makes a whitenoise with a fixed seed.

2008-11-06 09:23 luigi

- * @miir/fromParfrac.m: added code line to set sampling frequency

2008-11-04 18:06 luigi

- * +utils/@math/: pfallpsyms.m, pfallpsymz.m: added utils.math. where needed...

2008-11-04 16:32 luigi

- * +utils/@math/: autocfit.m, autodfit.m, psd2tf.m, psd2wf.m: added utils.math. to the embedded functions...

2008-11-04 15:53 mauro

- * @ao/curvefit.m: Help updated

2008-11-04 15:37 luigi

* +utils/@math/psd2wf.m: removed unnecessary code in 1dim case

2008-11-04 15:26 hewitson

* @ao/curvefit.m: New option to switch off fitting. Just returns the function evaluated at the starting values. Useful for checking the model.

2008-11-04 15:15 luigi

* +utils/@math/psd2wf.m: Added poles stabilization procedure for WF

2008-11-04 09:06 hewitson

* @ssm/getParamValues.m: Finished this method.

2008-11-03 18:15 luigi

* +utils/@math/psd2wf.m: corrected a bug for the 1dim case

2008-11-03 13:27 luigi

* +utils/@math/lp2z.m: Solved a contrast with the PZ constructor in case of three outputs

2008-11-03 13:08 luigi

* +utils/@math/lp2z.m: Solved a bug with dterm

2008-11-01 12:38 luigi

* +utils/@math/lp2z.m: changed 'NUM' to 'DBL' in mode for the calculation. Consequence of the change in cpf

2008-11-01 12:32 luigi

* +utils/@math/cpf.m: Changed the call for mode (the case when numerical calculation are required) from 'NUM' to 'DBL'

2008-11-01 08:23 hewitson

* @parfrac/resp.m, @rational/resp.m: Two bug fixes to avoid frequency vectors beginning at 0.

2008-10-30 21:41 nicola

* @ao/filter.m: Bug fixes for paraller or serial filter computing.

2008-10-30 20:28 nicola

* @ao/filter.m: Bug fixes.

2008-10-30 20:23 nicola

* @miir/miir.m: Now works both for `< miir( parfrac_obj ) >` and `< miir( parfrac_obj , plist() ) >` , with an empty plist.

2008-10-30 19:59 nicola

* @parfrac/parfrac.m: Now works both for `< parfrac( parfrac ) >` and `< parfrac( rational ) >` , with no plist attached. In the first case it's just copied.

2008-10-30 19:56 hewitson

* @ao/filter.m: Should work with a bank of filters now. They can be applied serial or parallel.

NEEDS TESTED

2008-10-30 19:55 hewitson

* @ao/curvefit.m: Supports AOs in Yerr and Xerr now.

2008-10-30 19:48 nicola

* @parfrac/parfrac.m: Bug fix?

2008-10-30 18:32 nicola

* +utils/@helper/ltpda_classes.m: Now lists also 'rational' and 'parfrac' (this is necessary to include these into the library).

2008-10-29 15:23 hewitson

* @ao/: ao.m, fromModel.m, mdc1_fd_Sdf.m, mdc1_fd_Ssus.m, mdc1_fd_Tdf.m, mdc1_fd_Tsus.m, mdc1_fd_df_controller.m, mdc1_fd_dynamics.m, mdc1_fd_sus_controller.m: A new system that allows us to have built-in parametric model constructors for AOs. For now I've just added the frequency-domain models for MDC1.

2008-10-29 15:22 hewitson

* @ao/lscov.m: bug fix: wasn't adding the history properly.

2008-10-29 15:06 hewitson

- * @ao/: lxspect.m, xspect.m: Bug fix: the various internal pre-processing steps were being included in the history, which we don't want. Now the input history is stored before doing any work on the input AOs.

2008-10-29 15:05 hewitson

- * @ao/find.m: Bug fix: queries were not properly saved in the history.

2008-10-29 12:55 hewitson

- * @ao/lscov.m: First version of a general linear least-squares fit.

This is a more general version of the timedomain fit method.

2008-10-29 10:41 luigi

- * +utils/@math/: vcfite.m, vdfite.m: Hope to solve some problems with the \ operator

2008-10-29 10:37 luigi

- * +utils/@math/pfallpsyms.m: sym all pass for s domain... It can still have some problems

2008-10-29 10:36 luigi

- * +utils/@math/math.m: added some functions

2008-10-29 08:32 hewitson

- * @plist/plist.m: Bug fix for loading from XML. Added default plist.

2008-10-29 08:31 hewitson

- * @ao/iplot.m: Added some more help text.

2008-10-28 17:09 mauro

- * @ao/: lpsd.m, lxspect.m, xspect.m: Window in the plist can just be a valid window name now: does not need to be a specwin object.

2008-10-28 17:03 luigi

* @ao/diff.m: Added the calculation with fpsder (utils.math.fpsder)

2008-10-28 14:56 hewitson

* @ao/psd.m: Window in the plist can just be a valid window name now: does not need to be a specwin object.

2008-10-27 16:13 hewitson

* @ao/filter.m, @fsdata/fsdata.m: Set X and Y at the same time.

2008-10-27 16:13 hewitson

* @tsdata/collapseX.m: Should also set the new sample rate.

2008-10-24 19:15 hewitson

* @parfrac/: fromPzmodel.m, resp.m: This stuff is closer to working, but there are still gain problems amongst the various conversions.

2008-10-24 18:05 hewitson

* @parfrac/fromRational.m: Small bug fix.

2008-10-24 17:58 hewitson

* @parfrac/: fromRational.m, parfrac.m: Convert rational TF to parfrac TF.

NOT WORKING YET.

2008-10-24 17:27 luigi

* +utils/@math/psd2wf.m: some minor changes...

2008-10-24 17:21 luigi

* +utils/@math/psd2wf.m: New routine to extract whitening filter models

2008-10-24 17:19 luigi

* +utils/@math/wfun.m: updated to the latest version...

2008-10-24 17:16 luigi

* +utils/@math/stopfit.m: update to the latest version...

2008-10-24 17:11 luigi

* +utils/@math/psd2tf.m: update to the latest version...

2008-10-24 17:05 luigi

* +utils/@math/: pfallpsymz.m, pfallpz.m: updated to the latest version...

2008-10-24 17:03 luigi

* +utils/@math/pfallps.m: updated to the latest version..

2008-10-24 16:52 luigi

* +utils/@math/lp2z.m: Updated to the latest version

2008-10-24 16:44 luigi

* +utils/@math/fpsder.m: Implementation of the zero order data smoother

2008-10-24 16:40 luigi

* +utils/@math/eigpsd.m: Implemetation of the whitening filter output

2008-10-24 16:31 luigi

* +utils/@math/autodfit.m: adapted to work with vdfit

2008-10-24 16:30 luigi

* +utils/@math/autocfit.m: Adapted to work with vcfit

2008-10-24 16:30 luigi

* +utils/@math/: vcfit.m, vdfit.m: New fit Functions with enhanced capabilities respect to ctfi and dtfit. Now multiple TFs can be fitted with common poles

2008-10-24 14:29 hewitson

* @history/rebuild.m, @mfir/redesign.m, @miir/redesign.m: Added a method to rebuild an object just from a history object. We should call this in ltpda_uoh/rebuild.

Redesigning filters may need to rebuild pzmodel first.

2008-10-24 13:41 hewitson

- * @pzmodel/: fromRational.m, pzmodel.m: Can convert from rational to pzmodel now.

2008-10-24 12:56 hewitson

- * @parfrac/fromPzmodel.m: bug fix.

2008-10-24 12:56 hewitson

- * @parfrac/resp.m: call utils.math.pfresp

still not working somehow.

2008-10-24 12:56 hewitson

- * +utils/@math/math.m: added pfresp method.

2008-10-24 12:27 hewitson

- * @parfrac/fromPzmodel.m: Deal with conjugate pairs.

2008-10-24 12:26 hewitson

- * @miir/: fromParfrac.m, miir.m: infrastructure for converting parfrac TFs to IIR filters.

2008-10-24 12:26 hewitson

- * @parfrac/display.m, @rational/display.m: Use mat2str instead.

2008-10-24 12:26 hewitson

- * @parfrac/copy.m: bug fix

2008-10-24 11:54 hewitson

- * @parfrac/parfrac.m: Added help info.

2008-10-24 11:50 hewitson

- * @parfrac/parfrac.m: Added constructor for pzmodel

2008-10-24 11:50 hewitson

* @parfrac/fromPzmodel.m: A converter to go from pzmodel to parfrac.

NOT WORKING YET

2008-10-24 11:42 hewitson

* @rational/: getlowerFreq.m, getupperFreq.m, resp.m: Compute response on rational TF.

2008-10-24 11:42 hewitson

* @rational/: fromPzmodel.m, rational.m: Can now convert pzmodel to rational through the constructor:

```
rat = rational(pzm)
```

2008-10-24 11:41 hewitson

* @pz/fq2ri.m: There was an inconsistency here for some reason. Real pz objects were being treated as zeros, complex as poles.

2008-10-24 11:40 hewitson

* +utils/@math/: fq2ri.m, ri2fq.m: Some bug fixes (I hope)

2008-10-24 10:19 hewitson

* @rational/: copy.m, rational.m: typos.

2008-10-24 10:19 hewitson

* @parfrac/: char.m, copy.m, display.m, fromResidualsPolesDirect.m, fromStruct.m, getlowerFreq.m, getupperFreq.m, parfrac.m, resp.m, string.m: New partial fraction TF representation class.

2008-10-24 10:16 hewitson

* +utils/@math/: ltpda_residue.m, math.m: ltpda_residue is replaced by cpf now.

2008-10-24 08:19 hewitson

* +utils/@math/: autocfit.m, autodfit.m, cpf.m, ctfm.m, deg2rad.m, dtfit.m, eigpsd.m, fpsder.m, fq2ri.m, fq2ri2.m, intfact.m, lp2z.m, ltpda_residue.m, pfallps.m, pfallpsymz.m, pfallpz.m, pfresp.m, psd2tf.m, rand.m, ri2fq.m, startpoles.m, stopfit.m,

unwrapdeg.m, wfun.m: Some code clean-up, particularly, indenting and header lines.

2008-10-23 21:26 hewitson

* @pzmodel/: fromPolesAndZeros.m, pzmodel.m: Typos fixed.

2008-10-23 21:26 hewitson

* @rational/: char.m, copy.m, display.m, fromCoefficients.m, fromStruct.m, rational.m, string.m: Rational representation of a transfer function to complement the pzmodel representation.

Needs a resp function.

Also, constructor from pzmodel (?)

2008-10-23 20:31 hewitson

* @ltpda_filter/ltpda_filter.m, @pzmodel/pzmodel.m: Inherit tf class now.

2008-10-23 15:22 adrien

* @ssm/simulate.m: - checks timestep is not 0 - display of remaning time is now on demand

2008-10-23 15:21 adrien

* @ao/gapfillingoptim.m: New gap filling method based on pz spectrum description, and two examples

2008-10-22 13:42 anneke

* @ao/ao.m: small change in help header

2008-10-20 10:38 anneke

* @ao/: ngconv.m, nginit.m, ngprop.m, ngsetup.m: small change in help header

2008-10-19 14:25 hewitson

* @sigBuilder/cb_mainfigClose.m: repogui2 can now be built in another figure:

repogui2(h)

(plus some code cleanup and bug fixes)

2008-10-19 14:23 hewitson

* @ao/sumjoin.m: Set history.

2008-10-19 14:23 hewitson

* @ao/ao.m: Rearranging help text.

2008-10-19 13:42 hewitson

* @sigBuilder/: buildMainfig.m, buildSignal.m, cb_addAll.m, cb_addSignal.m, cb_buildExport.m, cb_buildSave.m, cb_buildView.m, cb_clearSignals.m, cb_drawControls.m, cb_exportCommands.m, cb_mainfigClose.m, cb_removeSignal.m, cb_selectSignalType.m, cb_sigListClick.m, cb_sigListSelect.m, cb_toggleAddState.m, refreshSignalList.m, sigBuilder.m: A new GUI to help users build signals. All the time-series AO constructors are there. The user can build complicated signals then output the object or the commands to build the object.

2008-10-19 09:28 hewitson

* @ao/: ao.m, fromWaveform.m: The standard deviation of the noise can now be specified for the 'From Waveform'/noise constructor.

2008-10-19 09:27 hewitson

* @ao/sumjoin.m: A new AO method for joining time-series but this time overlapping segments are summed. Non-overlapping segments are zeropadded. The start times of the AOs are strictly observed.

2008-10-18 15:52 hewitson

* @ao/angle.m: New AO methods that computes the phase angle in radians. Just like phase() does in degrees.

2008-10-18 11:57 hewitson

* @ssm/: findParams.m, getParamValues.m: Two new statespace methods for searching for parameters and retrieving parameter values.

2008-10-17 18:34 adrien

* @ssm/assemble.m: now throws an error if timesteps are not the same

2008-10-17 16:29 ingo

- * @ao/search.m: rest of collecting the AOs is the input of the collecting the plists

2008-10-17 16:29 ingo

- * @ao/len.m: Use numel instead of length

2008-10-17 16:28 ingo

- * @ltpda_obj/isprop.m: Remove code which is comment out

2008-10-17 16:27 ingo

- * @ltpda_uoh/setProperties.m: Normally this method doesn't apply history but with the option 'internal' 'no' is it possible to add history. For example: obj = obj.setProperties('name', 'my name', 'internal', 'no')

2008-10-17 16:25 ingo

- * @plist/plist.m: set the access of the fromFile method to 'protected'

2008-10-17 00:08 miquel

- * @miir/miir.m: we need the possibility of complex values for pole/residue models (again)

2008-10-17 00:08 miquel

- * @ltpda_filter/ltpda_filter.m: we need the possibility of complex values for pole/residue models

2008-10-16 22:06 hewitson

- * @ao/fromFSfcn.m: Handles an AO as the f input.

2008-10-16 17:53 ingo

- * @ltpda_uo/save.m: one bug fix and keep the shape of the objects.

2008-10-16 17:52 ingo

- * @ltpda_uoh/fromFile.m: Some bug fixes for MAT files

2008-10-16 17:52 ingo

* @plist/fromFile.m: Some updates, some bug fixes, ...

2008-10-16 17:49 ingo

* @ao/ao.m, @cdata/cdata.m, @fsdata/fsdata.m, @history/history.m, @mfir/mfir.m, @miir/miir.m, @minfo/minfo.m, @param/param.m, @plist/plist.m, @provenance/provenance.m, @pz/pz.m, @pzmodel/pzmodel.m, @specwin/specwin.m, @time/time.m, @timespan/timespan.m, @tsdata/tsdata.m, @xydata/xydata.m, @xyzdata/xyzdata.m: Set the access status of the function fromStruct to 'private'.

2008-10-16 17:47 ingo

* @ao/fromStruct.m, @cdata/fromStruct.m, @fsdata/fromStruct.m, @history/fromStruct.m, @mfir/fromStruct.m, @miir/fromStruct.m, @minfo/fromStruct.m, @param/fromStruct.m, @plist/fromStruct.m, @provenance/fromStruct.m, @pz/fromStruct.m, @pzmodel/fromStruct.m, @specwin/fromStruct.m, @time/fromStruct.m, @timespan/fromStruct.m, @tsdata/fromStruct.m, @xydata/fromStruct.m, @xyzdata/fromStruct.m, @ssm/fromStruct.m:
1. bug fix: Use numel instead of length 2. bug fix: Reshape the objects to the shape of the structure

2008-10-16 17:45 ingo

* +utils/@helper/struct2obj.m: Special case for symbolic objects and keep the shape of the objects

2008-10-16 17:44 ingo

* +utils/@prog/rstruct.m: Keep the shape of the objects

2008-10-16 14:33 miquel

* @ao/fromPzmodel.m: poles/zeros with q count as double in the check for the noise generator

2008-10-16 12:09 hewitson

* @ao/lxspec.m: The 'l' was missing.

2008-10-16 11:53 hewitson

* @ssm/bode.m: Can handle AOs input as 'f' now.

2008-10-15 17:20 ingo

* @ao/setDescription.m, @ao/setFs.m, @ao/setPlotinfo.m, @ao/setT0.m, @ao/setX.m, @ao/setXunits.m, @ao/setY.m, @ao/setYunits.m, @ao/setZ.m, @ltpda_uoh/setName.m: Change some comments

2008-10-15 17:19 ingo

* @ao/fromVals.m: Add constructor for xyzdata

2008-10-15 15:46 ingo

* @tsdata/getX.m: Concert the x values into column vector before modify them.

2008-10-15 14:29 hewitson

* @ao/: curvefit.m, ltpda_fitChiSquare.m: A more featured version of curvefit:

1) computes covariance matrix 2) Can handle additional (non-fitting) parameters 3) Can return AOs evaluated at the parameter set upper and lower bounds. 4) You can specify what the fit function returns in case the values are complex (MATLAB can't minimise complex values)

2008-10-15 12:22 hewitson

* @ssm/: copy.m, double.m: changed output level for these often-used methods.

2008-10-15 12:22 hewitson

* @ao/iplot.m: Errors can be given as AOs now.

2008-10-15 07:38 hewitson

* +utils/@bin/fil.m: Added call for windows binary.

2008-10-15 07:38 hewitson

* +utils/@bin/liso/win32/: fil.exe, fil.ini, opamp.lib, vsort.exe: New LISO binaries for windows.

2008-10-14 19:46 miquel

* @ao/lisovfit.m: (1) added a new field 'method' that allows to use between default fitting ['fit'] or vector fitting ['vfit']. Needs

test. (2) if nargs == 3 returns 3 pzmodels: fit, lower value and upper value

2008-10-14 18:18 miquel

* +utils/@math/math.m: added method to math constructor

2008-10-14 17:46 ingo

* @history/hist2m.m: Special command if the plistUsed in the history object is an empty double = []

2008-10-14 17:02 ingo

* @ao/: applyoperator.m, minus.m, plus.m: Move the setting of the yunits to the 'minus' and 'plus' function

2008-10-14 17:01 ingo

* +utils/@helper/collect_values.m: Use mat2str if the numer is a matrix

2008-10-14 16:20 hewitson

* @unit/: mpower.m, power.m: throws an error for unit^unit since I don't know what this means.

unit^number works.

2008-10-14 16:09 hewitson

* +utils/@prog/mcell2str.m, @ao/string.m, @history/char.m, @history/hist2m.m, @ltpda_uoh/rebuild.m, @ltpda_uoh/type.m, @param/display.m, @param/string.m, @plist/plist2cmds.m, @plist/string.m: Lots of cleaning up and consolidating code and behaviour. Hopefully nothing has been broken by this.

Now string on an ltpda_uoh object which has more than one level of history throws an error.

2008-10-14 14:59 hewitson

* @param/display2.m: No longer needed.

2008-10-14 10:04 hewitson

* @history/getObjectClass.m: Return the class of object that this history builds.

2008-10-14 09:01 hewitson

* +utils/@prog/mcell2str.m, @history/history.m, @param/char.m, @param/display.m, @plist/string.m: Working on displaying parameters, using string and char. This is all a mess and needs a nicer solution.

Coming soon!

2008-10-13 19:36 hewitson

* @param/char.m: These changes implement the proposed changes to storing ltpda_uoh objects in plists. Now only the history is stored.

This makes history/dotview, history/hist2dot, history/plot work.

The converted plist shows what type of object the history belongs to.

2008-10-13 19:33 miquel

* @pzmodel/fromLISO.m: bug fix

2008-10-13 19:22 hewitson

* @history/hist2m.m, @ltpda_uoh/addHistory.m: These changes implement the proposed changes to storing ltpda_uoh objects in plists. Now only the history is stored.

If others disagree with this change, we can easily revert.

2008-10-13 19:12 hewitson

* +utils/@bin/liso/maci/: fil, fil.ini, opamp.lib, vsort: Updated versions for the Mac.

2008-10-13 14:45 hewitson

* @ltpda_obj/eq.m: Some additional message output.

2008-10-13 14:45 hewitson

* @ltpda_uo/save.m: R2008b throws warnings when converting a user object to a struct. We don't want these warnings so they are switched off during the conversion.

2008-10-13 13:37 hewitson

- * @history/hist2m.m: Make sure empty commands are removed.

2008-10-13 12:29 ingo

- * @ao/: ao.m, setPlotinfo.m: Add setter function for the property 'plotinfo'. This function is a public method and it is possible to set the value with a plist or direct.

2008-10-13 11:43 miquel

- * @pzmodel/fromLISO.m: If the LISO file contains parameter errors the pzmodel constructor returns 3 pzmodels: (1) the nominal model, (2) a model with the lower boundaries and (3) idem. with upper boundaries.

2008-10-13 11:01 hewitson

- * @ltpda_uoh/report.m: Various bug fixes and robustness increase

2008-10-13 11:00 hewitson

- * @ltpda_filter/ltpda_filter.m: declare resp()

2008-10-13 11:00 hewitson

- * @ltpda_filter/resp.m: new version of resp() which is inherited by mfir and miir to ensure a uniform behaviour.

2008-10-13 10:59 hewitson

- * @miir/miir.m: remove declaration of resp().

2008-10-13 10:58 hewitson

- * @miir/oldresp.m, @miir/resp.m, @mfir/oldresp.m, @mfir/resp.m: Rename this. The resp() function is now inherited from ltpda_filter.

2008-10-13 09:39 hewitson

- * @ssm/ssm.m: add the empty constructor

ssm(plist)

2008-10-12 19:40 hewitson

* @ltpda_uoh/report.m: produces a single html page output now + lots of new features.

2008-10-12 15:42 hewitson

* @ltpda_uoh/report.m: Now outputs attached mfile and dumps output of type command.

2008-10-12 15:42 hewitson

* @ao/: extractm.m, extractmdl.m: some bug fixing and extended options.

2008-10-12 12:56 hewitson

* @history/hist2m.m: Works for vectors of ltpda_uoh objects in plists. But what about matrices of objects?

2008-10-12 11:22 hewitson

* +utils/@helper/xmlwrite.m: Re-coding the vector writing because it wasn't working properly for all cases.

2008-10-11 19:54 hewitson

* @ltpda_uoh/report.m: some formatting modifications.

2008-10-11 17:35 hewitson

* @ltpda_uoh/report.m: Opens the report and returns the directory if required.

2008-10-11 17:11 hewitson

* @ltpda_uoh/report.m: Generates an HTML report of the input objects.

2008-10-11 17:03 hewitson

* @ssm/dotview.m: bug fix.

2008-10-11 15:46 hewitson

* @ssm/dotview.m: New options.

2008-10-11 13:26 hewitson

* @history/dotview.m: extended options.

2008-10-11 13:25 hewitson

* @history/hist2dot.m: bug fix for the stop_option. I thought to get all this needed to be empty, but it needs to be 'full'.

2008-10-10 19:29 luigi

* +utils/@math/pfallps.m: Corrected a strange bug...

2008-10-10 18:37 luigi

* +utils/@math/pfallps.m: Only pole stabilization for the moment

2008-10-10 18:15 ingo

* @ao/applyoperator.m: Use for the function setYunits the option 'internal'

2008-10-10 17:00 hewitson

* +utils/@helper/: xmlread.m, xmlwrite.m: Bug fixes for saving and loading matrices and vectors of symbols.

2008-10-10 16:16 adrien

* @ssm/assemble.m: just cleaning up

2008-10-10 16:16 adrien

* @ssm/isstable.m: better display

2008-10-10 16:15 adrien

* @ssm/kalman.m: speeded up (by a factor 10)

2008-10-10 16:13 adrien

* @ssm/simulate.m: only work in progress. Later, simulate will give output aos in the order specified by the user plist.

2008-10-10 13:04 ingo

* +utils/@plottools/islinespec.m: new function for the plottools (necessary for ao/plot).

2008-10-10 13:03 ingo

* @ao/fromVals.m: Add x-units for AOs with tsdata and fsdata

2008-10-10 13:02 ingo

* @ao/plot.m: bug fix

2008-10-10 12:02 hewitson

* @ao/mltfe.m: Horrible bug in the phase of the transfer function (effectively we had the conjugate of the TF).

2008-10-10 11:30 hewitson

* @ao/mltfe.m: Some bug fixes.

2008-10-10 11:21 hewitson

* @ao/interpmissing.m: A rewrite to avoid rounding problems.

2008-10-10 10:12 hewitson

* @ao/mltfe.m: Support for parallel computing toolbox.

2008-10-10 10:12 hewitson

* @ao/lxspec.m: Set X units to Hz.

2008-10-09 21:54 hewitson

* @ssm/simulate.m: Output AOs have xunits set to 's' now. We need to set the yunits once we have units built in to the models.

2008-10-09 20:50 hewitson

* @ao/mlpsd_mex.m: Bug fix.

2008-10-09 20:44 hewitson

* @ao/mlpsd_mex.m: Added support for the parallel computing toolbox. If that toolbox is installed and a matlab pool is running, then the loop over frequencies is distributed over the workers.

2008-10-09 20:19 ingo

* @ao/: max.m, min.m: Bug fixes: 1.) use isprop instead of isfield
2.) case command is not case sensitive

2008-10-09 18:10 ingo

- * @ao/ao.m: bug fix: Change the default plist for fromVals

2008-10-09 17:45 luigi

- * +utils/@math/: autocfit.m, autodfit.m, psd2tf.m: psd2tf 1dim identification works fine. Still to implement 2dim identification. When params.idtp = 2 is used (all z-domain identification) the all-pass process is really slow because symbolic math is required for good accuracy

2008-10-09 17:41 anneke

- * @ao/fromPzmodel.m: added error message for wrong number of poles/zeros

2008-10-09 17:36 hewitson

- * @ao/cov.m: Sorry, wrong version.

2008-10-09 17:32 hewitson

- * @ao/cov.m: Computes the covariance of the input data streams. They must all be the same length of y vectors.

2008-10-09 17:26 anneke

- * @ao/ao.m: even more help for noise generator

2008-10-09 16:49 ingo

- * @time/time.m: Add new constructor time([0 3000 7000]). This constructor returns three time-objects

2008-10-09 16:48 ingo

- * @param/display.m: Display complex values

2008-10-09 16:47 ingo

- * @ao/ao.m: Add new constructor ao(pzmodel, Nsecs, fs)

2008-10-09 16:43 anneke

- * @ao/ao.m: added help for noise generator

2008-10-09 16:15 luigi

- * +utils/@math/stopfit.m: Function to check fit accuracy. It can be used in fitting loop to automatically stop the iteration

2008-10-09 14:45 miquel

- * +utils/@math/math.m: added new methods to the math constructor

2008-10-09 14:27 adrien

- * @ssm/modiftimestep.m: small change in variable initialization for multiple input

2008-10-08 18:57 luigi

- * +utils/@math/: autocfit.m, autodfit.m, ctfrit.m, dtfit.m, eigpsd.m, pfallps.m, pfallpsymz.m, pfallpz.m, psd2tf.m, startpoles.m, wfun.m: Utils functions for system identification. Still need debug...

2008-10-08 18:54 hewitson

- * @ao/ao.m: set default Yunits to empty for the 'From Vals' constructor.

2008-10-08 16:57 adrien

- * @ssm/isstable.m: Matlab numerical error in eig imposes to take some margin

2008-10-08 16:02 adrien

- * @ssm/assemble.m: BIG error in input selection. I thought I had committed a long time ago.

2008-10-08 15:41 adrien

- * @ssm/modiftimestep.m: BIG error in output assignment

2008-10-08 15:36 adrien

- * @ssm/simulate.m: One BIG error in HF white noise generation. Needs further thinking, this is clearly not satisfactory

2008-10-08 15:35 adrien

- * @ssm/kalman.m: one small plist change

2008-10-08 14:49 hewitson

- * @ao/lisovfit.m: New AO method that uses LISO to do a pzmodel fit to a measured transfer function.

2008-10-08 14:49 hewitson

- * +utils/@bin/fil.m: Removed some debug output.

2008-10-08 14:49 hewitson

- * @pzmodel/pzm2ab.m: bug fix on message output.

2008-10-08 14:49 hewitson

- * @ao/xspec.m: Bug fix to make units of measurement come from input signal units.

2008-10-08 14:48 hewitson

- * @unit/factor.m: New method to factorize units into numerator and denominator units.

2008-10-08 13:46 hewitson

- * @ao/iplot.m: Bug fix for xydata.

2008-10-08 12:35 hewitson

- * @ao/applyoperator.m: Don't need to check the version of the units when checking for operations.

2008-10-08 11:49 hewitson

- * +utils/@bin/: fil.m, liso/maci/fil.ini: Some bug fixing.

2008-10-08 11:49 hewitson

- * @pzmodel/resp.m: Should work with a list of pzmodels as input now.

2008-10-08 11:15 mauro

- * @ao/ao.m: Default set plists now include units Help fixed

2008-10-08 11:13 mauro

- * @ao/: fromFSfcn.m, fromPolyval.m, fromTSfcn.m, fromWaveform.m:

Units are set at higher level

2008-10-08 11:11 mauro

* @ao/fromFcn.m: Fixed handling f non numeric input parameters

2008-10-08 10:02 hewitson

* @ssm/ssm2dot.m: Added colors to lines and thicker lines to make reading easier.

2008-10-07 22:45 hewitson

* +utils/@bin/fil.m: The LISO wrapper method.

2008-10-07 22:45 hewitson

* +utils/@bin/liso/maci/: 2plp.fil, 2plpresp.fil, dewh.fil, fil, fil.ini, opamp.lib, unisolve, vsort: The beginnings of a LISO wrapper. Only has binaries for OS X 10.5 at the moment.

2008-10-07 22:44 hewitson

* +utils/@bin/bin.m: A new utility class for wrapping external binary executables.

2008-10-07 19:26 ingo

* @ao/setFs.m: Add one other condition for the 'internal' usage of this function.

2008-10-07 19:25 ingo

* @ao/fromDatafile.m: Add semicolon to the end obj a command

2008-10-07 19:10 ingo

* @ltpda_obj/isprop.m: bug fix

2008-10-07 18:57 ingo

* @ltpda_obj/isprop.m: New calculation of this function. Because the old solution calls the function 'type' for the command isprop(ao, 'type'). The new solution is 3 times slower than the old solution but it doesn't create unknown results.

2008-10-07 16:20 ingo

* @ao/fixfs.m, @ao/fromDatafile.m, @ao/fromFSfcn.m, @ao/fromFcn.m, @ao/fromPolyval.m, @ao/fromPzmodel.m, @ao/fromTSfcn.m, @ao/fromVals.m, @ao/fromWaveform.m, @ao/setFs.m, @ltpda_uoh/fromFile.m, @ltpda_uoh/fromRepository.m, @ltpda_uoh/ltpda_uoh.m, @ltpda_uoh/setProperties.m: Set properties from the input plist and/or from the default plist.

2008-10-07 16:18 ingo

* @tsdata/collapseX.m: collapse the x-axis only if the x-axis contains data.

2008-10-07 15:40 hewitson

* @history/dotview.m, @ssm/dotview.m: Use MATLAB's open command for viewing the image file. A bit more portable.

2008-10-06 17:35 hewitson

* @ssm/setparams.m: Allows for string inputs.

2008-10-06 16:13 adrien

* @ssm/subsparams.m: now deals with one alternative 'subsnames' list. Also with one string input

2008-10-06 16:08 adrien

* @ssm/: double.m, isstable.m: Now throws an error in case of symbolic system instead of crashing.

2008-10-06 16:07 adrien

* @ssm/simulate.m: now throws an error if input variable name was not found in ssm.

2008-10-06 14:47 ingo

* @ao/loadobj.m, @ao/mchol.m, @ao/mlpsd_m.m, @ao/mlpsd_mex.m, @ao/mltfe.m, @cdata/loadobj.m, @fsdata/loadobj.m, @history/loadobj.m, @mfir/loadobj.m, @miir/loadobj.m, @minfo/loadobj.m, @param/loadobj.m, @plist/loadobj.m, @plist/parse.m, @provenance/loadobj.m, @pz/loadobj.m, @pzmodel/loadobj.m, @specwin/loadobj.m, @ssm/loadobj.m, @ssm/validate.m, @time/fromTimeString.m, @time/fromTimeValue.m, @time/loadobj.m, @time/parse_time_string.m, @timespan/loadobj.m, @tsdata/loadobj.m, @tsdata/tsdata.m, @unit/char.m, @unit/mpower.m, @unit/mrdivide.m, @unit/mtimes.m, @unit/plus.m,

@unit/power.m, @unit/rdivide.m, @unit/sqrt.m, @unit/times.m,
@xydata/loadobj.m, @xyzdata/loadobj.m: Add cvs string to file

2008-10-06 12:34 hewitson

* @ssm/ssm2dot.m: Change to black font for the system name.

2008-10-06 11:49 ingo

* @mfir/fromPzmodel.m: Add the history from the pzmodel-object to
the history of the mfir-object

2008-10-06 11:49 hewitson

* @ssm/subsparams.m: Works now if 'keepnames' is just a string. No
need for a cell-array of a single string.

2008-10-06 11:48 ingo

* @ao/fixfs.m: bug fix

2008-10-06 11:48 hewitson

* @ssm/bode.m: Changed the name given to the output AOs to be
something shorter. The typical SSM names are way too long.

2008-10-06 11:48 ingo

* @ao/: conv.m, lpsd.m: Use the constants in
utils.const.categories.* to define the category

2008-10-06 11:13 ingo

* @ssm/: char.m, copy.m, display.m, double.m, fromStruct.m,
isstable.m, kalman.m, minreal.m, modif timestep.m, reduce.m,
ssm2ss.m, string.m: Use the constants in utils.const.categories.*
to define the category

2008-10-06 10:29 hewitson

* @mfir/resp.m, @miir/resp.m, @pzmodel/resp.m: Set X units.

2008-10-06 10:29 hewitson

* @ssm/bode.m: Set X and Y units.

2008-10-06 10:19 hewitson

- * @ssm/bode.m: Bug fix and change to more uniform key names in plist.

2008-10-05 21:04 hewitson

- * @ssm/: assemble.m: Fixed CVS tags.

2008-10-05 20:10 adrien

- * @ssm/: isstable.m, ssmFromBuiltinSystem.m: some small changes

2008-10-05 19:47 hewitson

- * @ssm/ssm2dot.m: Bug fix.

2008-10-05 18:27 hewitson

- * @ssm/bode.m: New bode() method for SSM objects. Similar to resp() for pzmodel and filters.

2008-10-05 18:27 hewitson

- * @ssm/simulate.m: Changed to use proper category in getInfo.

2008-10-05 16:18 hewitson

- * @history/hist2dot.m: Collapse X vector if possible. Old XML files have the X data in the file.

2008-10-05 13:44 hewitson

- * @tsdata/fromStruct.m: Collapse X vector if possible. Old XML files have the X data in the file.

2008-10-05 13:23 hewitson

- * @param/char.m: Uses MATLAB's mat2str to give nicer output. Only 3 digits of precision are used. This function is only used for display.

2008-10-05 13:17 hewitson

- * @history/: dotview.m, hist2dot.m: These now accept the stop_option as documented in getNodes.

2008-10-03 18:34 hewitson

- * @history/dotview.m: bug fix.

2008-10-03 18:32 hewitson

- * @history/dotview.m, @ssm/dotview.m: Two new methods to directly view history or SSM objects via the dot interpreter. This relies on you having graphviz properly installed and the three variables in ltpda_startup properly set.

```
LTPDA_DOT_BIN = '/sw/bin/dot'; LTPDA_DOT_FORMAT = 'pdf';  
LTPDA_DOT_VIEWER = 'open';
```

2008-10-03 18:30 hewitson

- * @history/hist2dot.m: Some small changes in formatting.

2008-10-03 15:02 hewitson

- * @ssm/ssm2dot.m: A first version of a DOT converter for SSM models. It should show all the assembled SSM objects and how they all connect up.

2008-10-03 12:24 hewitson

- * @ssm/ssm.m: Bug fix for fromStruct and clean-up of private method declarations.

2008-10-03 11:25 hewitson

- * @ssm/: ssmFromFilename.m, ssmFromRepository.m: These are inherited from ltpda_uo.

2008-10-03 11:05 hewitson

- * @ltpda_uo/submit.m: Bug fix in binary submit.

2008-10-03 11:05 hewitson

- * @ssm/ssm.m: Moved fromStruct to be private where it belongs. Also moved declaration of public methods to avoid MATLAB's editor bug.

2008-10-02 20:08 adrien

- * @ssm/: ssmFromFilename.m, ssmFromRepository.m: Were these two really deleted or is it just an accident they were not in CVS control... ?

2008-10-02 20:05 adrien

* @ssm/: setparams.m, subparams.m: two simple functions to set parameters and substitute them

2008-10-02 20:04 adrien

* @ssm/modiftimestep.m: input changed : you can just give a ssm and a double

2008-10-02 20:04 adrien

* @ssm/assemble.m: added *conn fields although there may be some error in conn calculus. NOW inputs that are closed in the loop are also kept as system input !! (allowing to plug in signals everywhere if wanted)

2008-10-02 20:02 adrien

* @ssm/cellstrfind.m: output gestion was modified

2008-10-02 20:01 adrien

* @ssm/: ssm.m, validate.m, ssmFromDescription.m, reduce.m: two new functions, handle fields were replaced by 'nonlin', *conn fields were added to give i/o connectivity

2008-10-02 19:43 hewitson

* @ssm/: ssmFromMiir.m, ssmFromPzmodel.m: These handle plist inputs and do a proper job of the history now.

2008-10-02 19:43 hewitson

* @ssm/simulate.m: Bug fix: Wrong parameter name was used.

2008-10-02 19:43 hewitson

* @ssm/modify.m: Bug fix: history wasn't working properly.

2008-10-02 19:42 hewitson

* @ssm/ssm.m: added constructors:

ssm(plist('pzmodel', pzm)) ssm(plist('miir', filt))

and these two (needed for history)

ssm(pzm, plist('pzmodel', pzm)) ssm(miir, plist('miir', filt))

2008-10-02 19:41 hewitson

- * @history/hist2m.m, @param/string.m: Now calls mcell2str for cells.

2008-10-02 19:41 hewitson

- * +utils/@prog/mcell2str.m: Some futher debugging. Properly preserves the shape of the input cell arrays (only supports 2D).

2008-10-02 14:24 adrien

- * @ssm/modifparams.m: small cleanup

2008-10-02 14:24 adrien

- * @ssm/modiftimestep.m: forbids to go discrete for symbolic systems

2008-10-02 11:39 hewitson

- * @ssm/: ssmFromMiir.m, ssmFromPzmodel.m: Bug fixes.

2008-10-02 10:16 hewitson

- * +utils/@prog/mcell2str.m, @param/display.m: Bug fixes.

2008-10-02 10:12 hewitson

- * @ssm/ssmFromDescription.m: Fixes to history and version.

This loops over plists but there is only one plist. We can clean this up.

2008-10-02 10:11 hewitson

- * +utils/@prog/: mcell2str.m, prog.m: Moved this new cell converter to the utils. We now have at least 3 different cell2str type functions in the toolbox:

utils.prog.cell2str utils.prog.mcell2str
utils.helper.objdisp/Cell2Str

We should converge these!

2008-10-02 09:56 hewitson

- * +utils/@helper/objdisp.m: Small cosmetic change.

2008-10-02 09:52 hewitson

- * @history/hist2m.m: missed a ','

2008-10-02 09:50 hewitson

- * @history/hist2m.m: New internal recursive function to convert cell-array to executable string.

2008-10-02 09:49 hewitson

- * @ssm/ssmFromBuiltinSystem.m: Changed history to just add the constructor history.

2008-10-02 09:49 hewitson

- * +utils/@helper/objdisp.m: Added dimensions to cell array.

2008-10-01 19:39 hewitson

- * @ssm/simulate.m: Some speed up, but not much.

2008-10-01 17:18 ingo

- * @plist/string.m: bug fix: Fixes the command: string(plist('A', {
}))

2008-10-01 15:07 ingo

- * @ao/: filter.m, filtfilt.m: Some adjustments to the source code.

2008-10-01 14:06 hewitson

- * @ao/iplot.m: Lots of code cleanup Update help New feature changing the x-axis scale.

2008-10-01 14:06 hewitson

- * @unit/unit.m: Added a new unit.

2008-10-01 14:06 hewitson

- * @ao/heterodyne.m: Some typos.

2008-09-30 20:58 ingo

- * @ao/filter.m: Return more than one filter-object if the input AOs are more than one.

2008-09-30 20:57 ingo

- * @ao/fft.m: Some changes if the data have different shapes (row-, column- vector)

2008-09-30 20:56 ingo

- * @fsdata/fsdata.m: Allow to set a number or a string to the property T0. The property setting method converts this into a time-object

2008-09-30 20:54 ingo

- * @miir/fromStandard.m: Change the query to an empty unit-object

2008-09-30 16:19 ingo

- * @ao/: curvefit.m, dsmean.m, findFsMax.m, findShortestVector.m, firwhiten.m, fngen.m, join.m, mdc1_x2acc.m, smoother.m, string.m, xcorr.m, zeropad.m: bug fix: Use 'numel' instead of 'length' to run over ALL input AOs.

2008-09-30 16:16 ingo

- * @ao/downsample.m: Remove error because this never happens.

2008-09-30 16:16 ingo

- * @ao/diff.m: Add error for the method: 'filter'

2008-09-30 13:50 hewitson

- * @ao/heterodyne.m: New method to heterodyne a time-series. You can choose the frequency, the bandwidth and the quadrature.

2008-09-29 19:34 ingo

- * @ltpda_uo/submit.m: Update help information (Remove the cell-array as an input).

2008-09-29 19:32 ingo

- * @ao/dft.m: bug fix: Use numel to run over all AOs

2008-09-29 19:32 ingo

- * @ao/detrend.m: Use getY to get the y-data

2008-09-29 19:31 ingo

- * @ao/delay.m: simplify command because getY returns always a column vector

2008-09-29 17:19 nicola

- * +utils/@mysql/logindlg.m: Substituted with LTPDA version.

2008-09-29 15:07 ingo

- * @ao/lincom.m: Use the function getY to get the y-data because then is the shape of the data well defined (Nx1).

2008-09-26 17:29 hewitson

- * @ao/xspec.m: Bug fix. This should always specify the scale as 'PSD' for the ao/welch function.

2008-09-26 12:44 hewitson

- * @ao/: curvefit.m, ltpda_fitChiSquare.m: Added additional parameter to switch off error fitting (which sometimes doesn't work).

2008-09-26 12:44 hewitson

- * @ao/iplot.m: bug fix

2008-09-26 12:14 hewitson

- * @ao/ltpda_fitChiSquare.m: Bug fix for a single parameter fit.

2008-09-26 11:41 hewitson

- * @ao/iplot.m: Added the possibility to plot error bars. This works for tsdata and fsdata plots, though for fsdata the results are not so good due to MATLAB's poor handling of errobars on log log plots.

2008-09-25 16:58 miquel

- * @ao/fixfs.m: antialiasing filter in fixfs has now three options: 'off' (default), 'iir' filter or 'fir' filter

2008-09-25 13:50 ingo

* @plist/find.m: bug fix if plist.params is empty

2008-09-25 13:19 ingo

* @history/hist2m.m: Replace a single quote with two single quotes

2008-09-25 13:18 ingo

* @ao/: std.m, svd.m: The standard deviation is computed to both axes.

2008-09-25 13:17 ingo

* @ao/iplot.m: bug fix.

2008-09-25 13:16 ingo

* @ao/fromPzmodel.m: Add random state to the history-plist (necessary to rebuild the pzmodel)

2008-09-25 13:16 ingo

* @ao/compute.m: Bug fix: Add feature which was in the help: compute(a, {'a(1) + a(2)./a(3)', 'log10(a(1))'})

2008-09-25 13:14 ingo

* @ao/ao.m: Change ao-constructor ao(ao, plsit) to ao(ltpda_uoh, plist). Because this is necessary for the function function 'type'. For example if a AO is build from a pzmodel and 'type' tries to rebuild this AO. In this case ignore the first object and build a new AO from the plist.

2008-09-25 13:10 ingo

* +utils/@math/phase.m: Add 'end' at the end of the function

2008-09-25 09:42 hewitson

* @ao/smooth.m: Call the mex file for all but the mode method.

2008-09-25 08:45 hewitson

* @ao/smooth.m: A slightly faster version.

2008-09-24 23:14 adrien

* @ssm/simulate.m: bug corrected - somehow it worked anyway!!

2008-09-24 23:01 adrien

- * @ssm/simulate.m: i/o bugs corrected

2008-09-24 23:01 adrien

- * @ssm/cell_index.m: one bug corrected + possibility of having heterogenous content in cells (cellstr, binary, double)

2008-09-24 21:54 adrien

- * @ssm/: copy.m, fromStruct.m, ssm.m: tried to make all 'minfo' calls successfull

2008-09-24 21:51 adrien

- * @ssm/ssmFromBuiltinSystem.m: better error message

2008-09-24 21:50 adrien

- * @ssm/reduce_model.m: to avoid some compatibility bug with the 'ALL' option of the new subfunction

2008-09-24 21:49 adrien

- * @ssm/simulate.m: new outputs for simulate : variables are now specified, not blocks of variables

2008-09-24 21:48 adrien

- * @ssm/: cell_index.m, cell_select.m: indexing in cell array of blocks is done separately

2008-09-24 18:57 miquel

- * @ao/fixfs.m: added antialiasing filter to fixfs

2008-09-24 16:26 hewitson

- * @ao/display.m: Display the AO number as indexed in the input arguments.

2008-09-24 14:38 hewitson

- * @ao/fromVals.m: Changed to use parse() instead of combine. Also, this means we should add the input plist to the history and not the output plist.

Then we can do things like:

```
a = ao(plist('Yvals', 1:100))
```

and only the string '1:100' is stored in the history and not the values.

2008-09-24 14:36 hewitson

- * @plist/parse.m: Some bug fixing.

2008-09-24 14:36 hewitson

- * @ao/ao.m: Fixes to default plist for 'From Values'.

If we want plist/parse to work, then we need to make sure we have a default value with the correct data type.

2008-09-24 13:40 hewitson

- * @plist/parse.m: New method that can do parameter substitution. Intended to replace combine in some methods.

See test function. test_plist_parse

Still needs help and getInfo call before use.

2008-09-24 13:38 hewitson

- * @plist/find.m: Speed up.

2008-09-24 13:38 hewitson

- * @param/display.m: Now handles array of structures in a parameter value.

2008-09-24 11:52 miquel

- * @pz/fq2ri.m: Speed-up

2008-09-24 11:51 miquel

- * @ao/psd.m: Bug fix for the case of user not specifying NFFT and giving inputs of different data lengths.

2008-09-24 10:52 hewitson

* @ao/ltpda_fitChiSquare.m: Added CVS tag.

2008-09-24 10:51 hewitson

* @ao/: ao.m, curvefit.m, ltpda_fitChiSquare.m: Further work on curvefit. It now uses a wrapper around lsqcurvefit to give error estimates on the parameters. Also accepts errors on X and Y input data.

This wrapper is a modified version of the function fitChiSquare by N. Brahms. The original is on the MathWorks fileexchange at

<http://www.mathworks.com/matlabcentral/fileexchange/loadFile.do?objectId=9592&objectType=file>

2008-09-23 14:12 ingo

* @param/display.m: bug fix: Change the variable name for the for-loops.

2008-09-23 14:08 ingo

* @param/display.m: bug fix: The function displays the right number of parameters and not '0'.

2008-09-22 15:14 hewitson

* @ltpda_uo/submit.m: Some bug fixes.

2008-09-22 12:09 ingo

* @ao/iplot.m: If someone use the "Data cursor tool" to get the data points direct from the figure the displays iplot a time-string for the x-axis instead of a number.

2008-09-22 12:05 ingo

* +utils/@plottools/: datacursormode.m, plottools.m: Use the Data Cursor tool to label x, y, and z values on graphs and surfaces. This function displays the x-axis for tsdata as a time string and not as a number

2008-09-19 18:04 adrien

* @ssm/simulate.m: matrices are copied to avoid losing time seaching into objects. Noise is genenrated only by blocks of 500 samples to support long simulations

2008-09-19 18:03 adrien

- * @ssm/ssm.m: nicer display!

2008-09-19 17:35 ingo

- * @mfir/mfir.m, @miir/miir.m, @plist/plist.m, @pzmodel/pzmodel.m, @ssm/ssm.m, @timespan/timespan.m: Add the feature to get a binary from the repository to the header

2008-09-19 17:27 ingo

- * @history/: getNodes.m, hist2m.m: bug fix for the case that the history.plistUsed property is empty

2008-09-19 16:14 ingo

- * @pzmodel/resp.m: The frequencies are taken from a x-values of an AO which is in a plist. e.g. resp(pzm, plist('f', AO))

2008-09-19 16:02 ingo

- * @ao/: ao.m, fromVals.m: new version of the function: fromVals

2008-09-19 14:46 hewitson

- * @pzmodel/resp.m: Bug fix in plist('f', f) constructor.

2008-09-19 13:10 ingo

- * @ao/validate.m, @history/getNodes.m, @history/getNodes_plot.m, @history/hist2dot.m, @history/hist2m.m, @history/history.m, @history/plot.m, @ltpda_uoh/type.m: create a new version of getNodes which stops at a defined position in the parameter 'stop_option'. The values are 'File', 'Repo', 'File Repo' or a number which defines the maximum depth of the history-tree

2008-09-19 13:07 ingo

- * @ao/ao.m: Add some information to the header

2008-09-19 13:06 ingo

- * @ao/: fromPolyval.m, fromTSfcn.m, fromWaveform.m: use $t = 0:1/\text{fs}:\text{Nsecs}-1/\text{fs}$; instead of the MATLAB linspace

2008-09-19 12:22 hewitson

- * @ltpda_uo/retrieve.m, @ltpda_uoh/fromRepository.m: Added some error handling.

2008-09-19 11:37 hewitson

- * @ao/ao.m, @ltpda_uo/retrieve.m, @ltpda_uo/submit.m, @ltpda_uoh/fromRepository.m, @plist/fromRepository.m: Added submission of binary representation of objects to bobjs table (if it exists).

Added possibility to retrieve objects from the stored binary representation.

This means the object does not have to be converted from XML on retrieval and so is faster.

2008-09-18 15:08 ingo

- * @ltpda_uo/ltpda_uo.m: Now it is changed back: 'Submit' should be a non static method and not 'retrieve'

2008-09-18 12:29 ingo

- * +utils/@helper/xmlread.m: Predefine the variable which collects the data samples.

2008-09-18 12:28 ingo

- * @ao/fromWaveform.m: bug fix: predefinition of the total values with the right size

2008-09-18 09:28 hewitson

- * +utils/@helper/xmlread.m: Slight speed up with a dedicated version of char() for java strings.

2008-09-18 09:27 hewitson

- * @ao/iplot.m: Made max length of legend string a bit longer.

2008-09-17 20:10 ingo

- * @ao/: ao.m, fromWaveform.m: Adds sine waves with a time offset

2008-09-17 17:08 ingo

- * @ao/join.m: collapse the x-vector if possible.

2008-09-17 17:04 ingo

- * @ao/join.m: Add the feature to fill the gaps between the data points with zero. For this feature add a plist with the parameter 'zerofill'

2008-09-17 17:01 ingo

- * @data2D/getY.m: Bug fix: Necessary for ao/join. If the second input is empty then don't return any data.

2008-09-17 16:49 mauro

- * @ltpda_uo/ltpda_uo.m: Changed back: submit should be a non-static method

2008-09-17 15:19 mauro

- * @ltpda_uo/ltpda_uo.m: Changed submit should be a static method

2008-09-17 13:51 hewitson

- * @ao/curvefit.m: Deletes the fit file.

2008-09-17 13:17 ingo

- * @ao/complex.m, @ao/consolidate.m, @ao/conv.m, @ao/ctranspose.m, @ao/curvefit.m, @ao/delay.m, @ao/detrend.m, @ao/dft.m, @ao/diff.m, @ao/downsample.m, @ao/dropduplicates.m, @ao/dsmean.m, @ao/fft.m, @ao/filter.m, @ao/filtfilt.m, @ao/find.m, @ao/firwhiten.m, @ao/fixfs.m, @ao/fngen.m, @ao/gapfilling.m, @ao/hist.m, @ao/iff.m, @ao/index.m, @ao/interp.m, @ao/interpmissing.m, @ao/join.m, @ao/lpsd.m, @ao/mdc1_ifo2acc_inloop.m, @ao/mdc1_ifo2control.m, @ao/mdc1_x2acc.m, @ao/polyfit.m, @ao/psd.m, @ao/resample.m, @ao/rms.m, @ao/select.m, @ao/setDescription.m, @ao/setFs.m, @ao/setT0.m, @ao/setX.m, @ao/setXY.m, @ao/setXunits.m, @ao/setY.m, @ao/setYunits.m, @ao/setZ.m, @ao/smooth.m, @ao/sort.m, @ao/spectrogram.m, @ao/spikecleaning.m, @ao/split.m, @ao/sum.m, @ao/timeshift.m, @ao/transpose.m, @ao/upsample.m, @ao/zeropad.m, @ltpda_uoh/rebuild.m, @ltpda_uoh/setName.m, @mfir/resp.m, @miir/resp.m, @pzmodel/fngen.m, @pzmodel/resp.m, @timespan/setEndT.m, @timespan/setStartT.m, @timespan/setTimeformat.m, @timespan/setTimezone.m: Add the history with NO specified set and corresponding plist. --> addHistory uses getInfo('None')

2008-09-17 13:15 ingo

- * @history/update_struct.m, @minfo/update_struct.m, @param/update_struct.m, @unit/update_struct.m, @xyzdata/update_struct.m: update the file to the used release numbers 1.9.1, 1.9.2 and 1.9.3

2008-09-16 16:57 ingo

- * @ao/fromDatafile.m: Use the combined plist to set the properties. This means that the units are set to the default values in the default-plist.

2008-09-15 17:05 ingo

- * @xydata/xydata.m: Throw an error for ALL not supported cases.

2008-09-15 16:29 ingo

- * @ao/fromDatafile.m: Can create an AO with a cdata-object.

2008-09-15 16:29 ingo

- * @ao/: filter.m, filtfilt.m: Works for AOs with a fsdata-object.

2008-09-15 15:25 ingo

- * @ao/dft.m, @mfir/resp.m, @miir/resp.m, @pzmodel/resp.m: Bug fix: Use f.data.getX instead of f.getX

2008-09-15 14:06 hewitson

- * @ao/curvefit.m: Works also with methods that return AOs now.

Also, if the function used to fit returns complex data, then only the abs() is used to fit. Since curvefit() evaluates the fit function at the last parameter values and returns this data, the output AO will be real.

2008-09-15 12:51 ingo

- * @ao/dft.m, @mfir/resp.m, @miir/resp.m, @pzmodel/resp.m: the frequency vector can be an AO whereby the x-axis is taken for the frequency values

2008-09-15 12:37 hewitson

- * @ao/join.m: Added joining of fsdata objects.

2008-09-15 09:59 hewitson

* @unit/unit.m: Some bug fixing.

2008-09-14 20:53 miquel

* @pz/fq2ri.m: typo corrected

2008-09-14 20:47 miquel

* @pz/: fq2ri.m, ri2fq.m, setQ.m: changed the (f,q) $\leftrightarrow$ complex relation. More info and equations used can be found in the Logbook. Keep it updated if any change.

2008-09-13 11:58 hewitson

* @ao/ao.m, @plist/plist.m, @provenance/provenance.m, @time/time.m: Some speed-ups after profiling.

2008-09-12 16:22 hewitson

* @param/copy.m, @plist/copy.m: These methods get called so much that the 'if' statement in the msg code becomes significant. Remove this debug output to speed things up.

2008-09-12 16:13 hewitson

* @unit/: char.m, unit.m: Empty units are empty now - not [1]. This works with the history, otherwise we need a (silly) unit('1') constructor and '1' is not a supported unit.

2008-09-12 16:09 luigi

* +utils/@math/pfresp.m: Returns frequency response of a partial fraction expanded function

2008-09-12 16:01 luigi

* +utils/@math/lp2z.m: update - changing old ltpda_residue function with the new cpf

2008-09-12 15:59 luigi

* +utils/@math/cpf.m: changed name from ltpda_residue to cpf (Continuous Partial Fraction)

2008-09-12 15:37 hewitson

* @ao/iplot.m: Changed default legend location.

2008-09-12 15:25 ingo

* @history/hist2m.m: AO's (or all all classes which inherit the ltpda_uoh class) in plists can rebuild with the method 'type'.

2008-09-12 15:14 hewitson

* @specwin/specwin.m: Changed default window length to 0.

2008-09-12 13:18 ingo

* @miir/miir.m, @mfir/mfir.m: Update the header and the default plist 'From Standard'

2008-09-12 13:17 ingo

* @miir/fromStandard.m, @mfir/fromStandard.m: Set the i/o units if the units are present in the plist.

2008-09-12 13:16 ingo

* @miir/fromPzmodel.m, @mfir/fromPzmodel.m: f the miir object is created from a pzmodel the take the i/o-units from the pzmodel

2008-09-12 13:15 ingo

* @pzmodel/: display.m, fromPolesAndZeros.m, pzmodel.m: Add constructor whith the inputs: 1.) gain 2.) poles 3.) zeros 4.) iunits 5.) ounits

2008-09-12 13:13 ingo

* @unit/: char.m, unit.m: Remove the hidden property 'no_units'

2008-09-12 12:04 hewitson

* @ao/iplot.m: Some work on labels.

2008-09-12 12:04 hewitson

* @ao/iplotyy.m: New method to do two Y-axis plots.

Quite simple so far.

2008-09-12 09:57 hewitson

* @ao/curvefit.m: A first attempt at a wrapper for lsqcurvefit.

2008-09-12 09:57 hewitson

* +utils/@math/intfact.m: There was a case missing here.

2008-09-12 09:57 hewitson

* @tsdata/getX.m: Sometimes we can have rounding errors so we need to adjust X to match Y.

2008-09-12 09:56 hewitson

* @ao/iplot.m: Change default location of legend because 'best' can sometimes be very very slow for large data sets.

2008-09-11 18:47 ingo

* +utils/@helper/objdisp.m: Indent

2008-09-11 18:45 ingo

* @unit/: char.m, unit.m: Add a constant 'no_unit' which defines the unit if no unit is set. This property doesn't appear with the function 'properties' or 'fieldnames'. The option 'Hidden' is for this property = true.

2008-09-11 18:42 ingo

* @ao/: filter.m, filtfilt.m: Sets the output y-unit to yunits.*ounits./iunits of the filter

2008-09-11 18:41 ingo

* @pzmodel/resp.m: Sets the output y-unit to ounits./iunits of the pzmodel

2008-09-11 18:41 ingo

* @mfir/resp.m, @miir/resp.m: Sets the output y-unit to ounits./iunits of the filter

2008-09-11 18:40 ingo

* @ltpda_filter/ltpda_filter.m, @mfir/copy.m, @miir/copy.m, @pzmodel/copy.m, @pzmodel/display.m, @pzmodel/pzmodel.m: Add an input/output unit to the miir, mfir and pzmodel class.

2008-09-11 18:38 ingo

- * @ao/: ao.m, fromVals.m: The input of two vector with the same shape returns an AO with xydata. Theinput of two vectors and a frequency returns an AO with tsdata.

2008-09-11 18:36 ingo

- * @ao/: setDescription.m, setFs.m, setT0.m, setX.m, setXY.m, setXunits.m, setY.m, setYunits.m, setZ.m: Remove the if case when the output is set.

2008-09-11 18:35 ingo

- * @param/display.m, @fsdata/display.m, @cdata/display.m: small changes

2008-09-11 18:34 ingo

- * @specwin/specwin.m: Add a constructor for the input of the window-name without the length of the window.

2008-09-11 18:30 ingo

- * @xyzdata/display.m, @tsdata/display.m: small changes

2008-09-11 16:20 ingo

- * @ao/split.m: Now works SPLIT with 'split_type' and the other key-words like: 'samples', 'frequencies', 'times', 'chunks' and 'start_time'

2008-09-10 12:15 ingo

- * @ssm/ssm.m: Use inherit functions fromFile and fromRepository and move the definition of the prototypes to the bottom of the file.

2008-09-10 12:14 ingo

- * @ssm/: ssmFromFilename.m, ssmFromRepository.m: Remove this functions because this functions are inherit from the superclasses.

2008-09-10 11:22 miquel

- * @ao/detrend.m: bug fix

2008-09-09 23:00 mauro

* @unit/unit.m: Help fixed

2008-09-09 19:31 adrien

* @ssm/simulate.m: 2.5X faster now for simulation loop