Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
	To be Assigned or Discussed							
4861	Code maintenance issue – GUI coordinate systems					But there may be a code maintenance issue since we maintain two lists of supported coordinate systems. (One in thm_ui_req_spin.pro & one in thm_ui_cotrans_new.pro I just used a comment to future programmers, but a single list would probably be more durable.		
4685	"Scale to Page" layout option	4/4/2013	Nick			The "problem": When we add panels they become smaller in order to fit into the page. An extreme case is the overview plot.

The solution: We could add a menu selection under Graph, called "Scale to Page", and when it is checked (the default) everything will work as it does now. If the user unchecks it, then the panels will get longer and the page will get longer too (or we can split it into multiple pages). This will probably be helpful when the user wants to inspect the plots, or copy-paste into Word, or for posters etc. It may also help with the overlapping labels problem in the overview plots. | | |
| 4686 | Refactor axis options code | 4/5/2013 | Eric | | | we may want to eventually spend some time refactoring the axis options code. It's over 4,600 lines, has inconsistent tabbing in several places and there seems to be lots of obsolete code commented out. | | |
| QA127 | Axis options -- "apply" affects multiple panels | 04/16/13 | Pat | | | After QA. I'm attaching a gui document to help reproduce. Problem: when I set y-axis ticks to aesthetic=off, then I select "apply to all" the ticks on all panels change. If I then select "apply", the ticks on panel 3 change again.(even though I have panel one selected and did not "apply to all")

#1 Load GUI document.
#2 Open y-axis options, select ticks tab.
#3 Uncheck "aesthetic ticks"
#4 Select "apply to all"
#5 Select "apply". (Error: panel 1 *AND* panel 3 change) | | |
| 4688 | Add load routine for Kp index data | 4/8/2013 | Xuzhi | | | ssl_general/key_param/load_kp.pro is obsolete, but Kp data is ava | | |
| 4689 | need to keep clicking "yes to all" when replaying document that overwrites data | 03/27/13 | Pat | | | Looking into this one, I found that quite a few operations don't have overwrite queries tracked:

Interpolate pwrspc calc nudge getspec

Some seem to default to overwriting, some default to repeated queries to user. | | |
| 4690 | thm_mom_cotrans_cltestsuite is obsolete, either needs a complete rewrite to conform to current thm_load_mom usage, or merge any non-redundant tests into existing test scripts. | 03/04/13 | Jim M | | | Script is obsolete, maybe merge some tests into one of the existing mom test scripts?. Timespan,'2008-03-23' thm_load_mom,probe='c' thm_cotrans,'thc_peem_velocity',out_suf='_ssl', out_c='ssl'

SSL2DSL(180): Using spin model to calculate phase versus time | | |
| 4691 | Use TLB_FRAME_ATTR in thm_ui_prompt_widget to avoid need for looping around overwrite/confirmation dialogs (by disabling [X] close button). | 4/10/2013 | Nick | | | Implement on one dialog first, test on all supported platforms, if it works everywhere, then convert the rest of the dialogs. | | |

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4692	Repeated prompts to load STATE support data	4/12/2013	Aaron			I'm unsure on whether or not I'm seeing the correct behavior when state support data is loaded for cotrans operations. For SSE/SEL transforms the SLP data is loaded once, kept in the gui, and the user is not prompted again. For transforms that require state the user is prompted every time, unless all the required state data has been loaded manually. Might be related to thm_ui_check4spin, which never checks the spin model common block?		
4693	xtickinterval, ytickinterval for specplot.pro	4/15/2013	Andrew Poppe			I've been using specplot.pro directly to make plots and have noticed that it doesn't seem to accept the 'xtickinterval' or 'ytickinterval' keywords as part of the limits keyword structure. Can someone confirm this, and if so, would it be possible to add this functionality?		
4694	Open legend options by clicking in legend box	4/18/2013	Eric			Similar to axis, panel, page options		
4696	Reorganize crib sheets	04/03/13	Pat			Maybe separate directories for "basic", "advanced", experimental" functions? (Will also need to update users guide and quick reference guide to reflect new crib locations)		
4697	Omni load, if no data available for selected interval, loads whatever is available for that month	04/26/13	Eric			May be intentional to keep from producing empty tplot variables, but should at least produce a warning.		
4698								
4699								
4700								
	Hannes							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List up to date as of 9/20/2012		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	12/06/2012: Cal files updates, all probes from mid-August 2012 on.		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	10-22-2012 Updated for 2012-04-01 – 2012-06-30		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration		
	Aaron							
4685	Widget tree expansion, IDL 8.2	6/26/2012	Pat	1	Aaron	IDL fixed a bug which we had worked around, need a version check to enable/disable the workaround so it will work on all IDL versions.		
1301	The draw object takes a long time to render spectrograms when they are very zoomed in. It should be possible to put a special case in that would make this work more quickly.		Pat	1		Relatively easy partial workaround possible		
4719	ESA energy table updates – TDAS mods (ESA packet processing, calibration, summary plots, etc)	8/2/2012	Jim L	1	Aaron	Coding done, waiting for FLATSAT/probe data to test		
4857	thm_convert_esa_units, conversion to energy flux and back not symmetric	2/22/2013	Aaron	1	Aaron			
4858	One-count removal for velocity slices – make cutoff value a parameter	2/22/2013	Aaron	1	Aaron			
4505	Add a TDAS routine to do 1-d cuts - **when ready to work send Aaron Bennenman an email for clarity of task and then review at the S/W meeting again with Vassilis.**	2/6/2012	Aaron Breneman	2	Aaron	You could obtain a 1D cut of a slice by aligning the custom orientation vector (slice_orient keyword) such that the desired cut is along the x or y axis. The data could then be pulled directly from the array returned by thm_part_slice2d via the 'part_slice' keyword. This returns an R x R array containing the interpolated slice data (R=resolution). The x & y axis values for the array are returned in the 'xgrid' and 'ygrid' keywords.	1 hr	
	Cindy							
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next September 2013		

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4781	GMAG station status: troubleshoot stations with no data reported				Cindy			
	Ping Sasha for status of back AE station data					Next March 2013		
4687	Check with Ian Schofield about status of Dr. Hayashi's 1-sec STEP data set.	41369	Cindy		Cindy	September 2013		
4859	Double check processing & mirroring of Greenland GMAG data	3/6/2013	Cindy		Cindy	Some data for site "upn" was missing at Berkeley but present at UCLA		
4860	Check inventory of Berkeley vs. UCLA GMAG CDFs and transfer any missing files	3/6/2013	Jim L		Cindy	On the Berkeley server, we have data for site "upn" for every day in 2010-06 *except* for 2010-06-06, the date used in the test. I'm looking in:		
4760	Add McMac magnetometer network (12 sites) to our data set.	9/17/2012	Vassilis	1	Cindy	2/22/2013: Server problems at McMac data server, back data from 2007, 2008 being processed.		
4842	GUI API – Plugin access to GUI configuration settings dialog (remote, local data dirs, etc)	1/18/2013		1	Cindy	Another item for the master plugin config file (add a new mission to the dropdown in the configuration settings dialog) On hold until after TDAS 8.0		
4611e	Add support to GUI configuration settings panel for editing/saving cdf_leap_second configuration. (See also: tasks 4516 and 1315 for ACE, WIND, ISTP).	4/17/2012		1	Cindy	May or may not make sense to combine with 4842, if too hard to integrate we can defer to a future release. On hold until after TDAS 8.0		
4761	Add STEP polar magnetometer network (6 sites) to our data set.	9/17/2012	Vassilis		Cindy	4/04/2013: May take a year or more for Ian Schofield to collect and process Kanji Hayashi's data. Some 1-min data available for public use at step-p.dyndns.org/~khay (Dr. Hayashi's web portal).		
4847	Improve TDAS installation instructions for external libraries like IDL_GEOPACK	1/29/2013	John Bonnell		Cindy	May require sysadmin assistance if user doesn't have permission to update IDL installation directories. We should also mention the option of installing to an alternate location and using the DLM_PATH environment variable, rather than updating the IDL directory. README.txt with IDL_GEOPACK installation instructions already updated, copy into user guide and quick reference guide (if IDL_GEOPACK is mentioned at all there).		
	Eric							
2100h	Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).		John Bonnell	4	Eric	May be an issue, still looking.		
1266	Our numerical entry fields only accept exponential notation entries of the form (1.23e-3) but not the more traditional format(1.23*10^-3). We may want to leverage the code base from the mini language so that we can interpret these entries as numbers.		Pat	2		Still happening?	3 days	
803	Would be nice to have a way to move different panels from one page to another	11/22/2011	Oldie	2	Pat	sort how level of effort to accomplish. On hold, after QA		
	Jim L							
4831	Admin guide updates: eclipse spin corrections, chk_bfds_archive	1/3/2013			Jim L			
4815	Developer guide updates for GUI API, placeholders for rest of SPEDAS to plugin interface	12/7/2012	Vassilis					
4816	Eclipse spin model processing: some eclipses not being processed with current code, but Ferdinand's code is giving results?	12/7/2012	Ferdinand		Jim L	Ferdinand has updated eclipse model parameters for inner probes		
4709	Manual eclipse processing resets "last processed" date for automated processing; some processing logs not preserved	7/24/2012	Jim L	1	Jim L	If the automated processing is up to date, and I manually reprocess a time range early in the mission, the "last processed" date will get reset to the earlier date, which could trigger an unintended reprocessing of the full mission. "last processed" date should only be updated if it moves forward in time.		
4716	Add examples of eclipse spin model corrections to crib sheets (fgm, efi, scm, fit, mom)	7/27/2012	Vassilis	1	Jim L	fgm, fit, mom, updated; efi, scm, new eclipse crib in progress.		
4142	issue with FGS processing - timestamps	9/30/2010	Vassilis	1	Jim L	not trivial. After 4764		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	See 4142 After 4764		
	Jim M							

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4855	Discrepancy between spacecraft positions in summary plots.	2/8/2013	Mike Hartinger		Jim M	I noticed a discrepancy between the spacecraft position data shown at the bottom of the summary plots on the THEMIS website. The particular summary plots I compared were 2008-02-26 06:00-08:00, THEMIS-E - "Overview", "Space ESA moments", and "Ground ESA moments". The position data from "Overview" and "Ground ESA moments" differ from the position data from "Space ESA moments". 2-15-2013: Fixed, reprocessing plots.		
4784	Add RBSP orbit data to THEMIS plots	10/16/2012	Vassilis		Jim M	2/01/2013: Permission problem in JBT's code, putting SPICE kernel files in his home directory.		
4820	Need IDL-only FITS reader code suitable for inclusion in SPEDAS	12/11/2012	Mini-GEM		Jim M	Checked into SVN, needs to be documented in developers guide.		
4821	Use improved IDLDOC procedure to generate TDAS HTML documentation?	12/11/2012	Mini-GEM		Jim M	better format, more web-friendly? IDL 8.0+ versions OK since it won't be distributed with TDAS, only the HTML output.		
4152b	change the ESA tables such that the minimum magnetospheric electron energy becomes lower (about 3eV, or lower). McFadden can specify the lower energy	10/20/2011	Vassilis	0	Jim M	only ARTEMIS probes - Need to talk to Jim McFadden. Also need MOC Support. 8/10/2012: FLATSAT energy weights don't match Jim McFadden's spreadsheet, need to discuss with him, possibly 8/10/2012. 9/10/2012: Energy weight table discrepancy resolved, flatsat and probe EEPROM tables are fine. 9/28/2012: New modes & config words may already be present in latest ETC spreadsheet. 1/18/2013: Ready for FLATSAT testing		
	Nick							
	Update FBK, FFT, ESA, SST configuration history HTML pages				Nick	Update monthly for now.		
4843	Cron job to update configuration history database	1/24/2013		1	Nick	FBK done, FFTs next		
4834	Add additional links to instrument configuration history pages	1/10/2013	Bob McGuire	1	Nick	1) From ESA, SST, other instrument pages 2) L1/L2 master CDFs 3) Possibly from one of the "Data" dropdown menu items? Hold until Nick's task 4804 is done. Ask Bob McG to look at website and suggest other useful changes.		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	3	Nick	Tmtools libdecom code. On first call, do runtime call to check whether floats are big-endian or little-endian, set a static flag in		
4683	Change L2 FIT master CDF to allow different sample counts for fgs and fgs_sigma; efs and efs_sigma, efs_0, efs_dot0		Jim L					
4684	thm_cal_fit: clean up NaNs in fgs and efs, reprocess L2 FIT		Jim L			After 4683. Will need to change code that writes variables to L2 CDF.		
	Pat							
	Updated FGM calibrations for solar array currents vs. spin phase?	5/30/2012	Vassilis	0	Pat	Last Recieved - May 2012. May need to remind FGM team if we go a long time without updates. David Fischer will probably have updates after Jan 1.		
4713	Since the diode degradation will be modeled as shifting the minimum energy of the SST up, we'll need to interpolate the SST efficiency parameters to the new energy bins.	7/24/2012	Vassilis	0	Pat	This may not actually be done by someone on the software team, but I thought I'd report it anyway, so that it doesn't get lost in the shuffle once the other calibrations are completed.		
4844	Different SST look directions no longer line up in energy with original calibration factors	1/24/2013	Pat	0	Pat	What we came up with is to interpolate the esa to match SST(in time & look direction), then smooth the ESA data to account for poor count statistics, then interpolate between the SST and the ESA to shift the SST to a regular energy grid. This will be a decent amount of effort to code up, but it seems promising. Will probably not make it into TDAS 8.		
4771	Writeup for new SST calibration	9/28/2012		0	Pat/Drew	For senior review. After 4844. (But 4844 will likely not be ready for TDAS 8 release...ready when senior review is due?)		
4832	Allow keywords in calc function calls	1/7/2013	Vassilis	1	Pat	e.g. calc,'a=total(b,/nan)'		

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4537	Deletion of data not reflected in saved/reloaded THEMIS document. Formerly QA206. Also remember to overwrite prompt setting (yes to all, etc)	3/2/2012	Lydia		Pat	I loaded data for probes b and c and then went to plot the data and realised I should have loaded a and b for the tests. I returned to the load data panel and loaded the probe a data before deleting the probe c data. After saving as a themis document and reopening, the c data was loaded but not deleted. The data that was loaded and deleted using delete all data following the testscript does not appear when you reopen the document (as you'd expect).		