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							
4929	Improve "basic" cribs		Pat		TBD	The tplot cribs under ssl_general/examples are good examples to follow for style. Cribs should be directly executable (not wrapped in a function call), with explanatory banners and comments. They should demonstrate loading raw L1 data, calibrated L1 dat		
4929	Improve "basic" cribs		Pat		TBD	Missing a basic "esa" crib		
4929	Improve "basic" cribs		Pat		Volunteers?	Still to do: asi cotrans dproc efi export fbk fft fgm fit spinfit gmag overplot scm		
4951	Inconsistent directory listing format from justice FTP server		Tami		Sysadmins?	Sometimes they get HTML formatted listing, sometimes plain ls output. Affects SPDF data product ingest process.		
4952	Obtain beta for upcoming IDL 8.3 release & evaluate for SPEDAS compatibility issues		Tami					
4972	Unnecessary downloads when loading IUGONET data		Mini-GEM		TBD	File downloaded even when it's freshly created on local filesystem. May be related to server reporting timestamps in UTC vs. local time? IUGONET team to provide test case		
4982								
4983								
	Aaron							
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
4957	Slices code: coordinate keyword vs. rotation keyword		Aaron	1	Aaron	Coordinate keyword should specify well-known coordinate systems; rotation keyword should specify arbitray slice orientations relative to specified coordinate system. Current code muddles the two concepts – move rotation specifications into the code to ha		
4908	Prevent unnecessary reloads of particle data		Aaron	1	Aaron	Keep track of last requested time interval in common blocks, so that gaps at beginning/end of day don't cause unnecessary reloads.		
4730	Integrate idlneturl into file_http_copy?	06/25/13	GEM-SPEDAS		Aaron	Would have to sacrifice IDL 6.3 compatibility, but most users should have upgraded by now. OK to proceed.		
4979	Integrate SST contamination removal options with particle slices code		Aaron		Aaron	Initially I thought this would be as simple as changing a couple keywords when loading the data, but it's now being performed post-load. The new code is in the SST sanitization routine for thm_part_products so it should be simple to drop a call to that i		
4968	SPEDAS wiki			1	Aaron	Slices documentation, background info & documentation for general particle processing		
4725	Generate combined ESA/SST moments in GUI	06/25/13	GEM-TDAS tutorial	2		Very preliminary at the moment, add to GUI in 6-12 months (so probably sometime in 2014)		
4929	Improve "basic" cribs		Pat	2	Aaron	sst mom part_products		
	Cindy							
	Ping Sasha for status of back AE station data					Pinged 7/2013, waiting for response		
4687	Check with Ian Schofield about status of Dr. Hayashi's 1-sec STEP data set.	41369	Cindy		Cindy	2013/10/17: Data being converted now, should be available in a couple of weeks		
4970	Add Plugins menu to main menu bar, develop API routines so plugins can add their own menu items		Mini-GEM		Cindy			
4975	Quick start guide for plugin developers, including design guidelines for CDFs, better documentation for time_double, file_retrieve, and other useful tools for creating load routines and GUI plugins		Mini-GEM		Cindy			
4967	SPEDAS wiki				Cindy	SPEDAS API documentation and other notes for plugin developers		
4924	Add new Alaska station and revived Arctic station to GIMA processing scripts, master CDFs, etc		Cindy		Cindy			

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4743	Clean up GMAG processing scripts		Cindy	2	Cindy	many variations of wget wrappers, will be much cleaner when code is consolidated. Should also look into consolidating database schemas for the various scripts.		
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).		
	Eric							
4935	Use FGS-FGL correlation, FGS-FGE correlation, and presence of spikes in dB/dt to detect timing issues in FGS data.				Eric	FGS-FGL and FGS-FGE comparisons should be performed and reported packet-by-packet. See if spikes are detectable in very low fields (e.g. ARTEMIS). Output format should be amenable to further processing. Alternate approach: compare integrals, as opposed		
4956	Detect/repair missing(?) samples near FGM range changes in both waveform and spin fit data		Vassilis		Eric			
4981	Generate GOES summary plots from GUI		Jim L		Eric			
4905	Acknowledgments for GOES data from NOAA?		Eric			Contact Howard Singer to find out who should approve acknowledgements		
4966	SPEDAS wiki				Eric	Document GOES plugin (data source, available data sets, processing notes if any)		
4974	Quick start guide for VM users (explain how to get the VM software from Exelis, how to install and start TDAS in VM)		Mini-GEM		Eric	Merge existing guide into users's guide, quick start guide, wiki		
4735	tsyganenko support in GUI	06/25/13	GEM-TDAS tutorial		Eric	Does this mean we'd have to distribute the DLM/DLL/so files with TDAS instead of providing a separate download? How would this work for the VM?		
4963	Elena Grigorenko help request		Vassilis		Eric	Use TDAS VM to plot particle distributions in phase space density.		
	Jim L							
4944	thm_load_fgm reloads and time clips state data if state is already loaded and less than a day is requested.		Pat		Jim L			
4960	Glitches at eclipse entry/exit that look like FGM range changes; some real range changes seem to be handled improperly		Yuri K, Eric		Jim L	May be a problem with FGM L0->L1 processing and detection of range changes.		
4969	SPEDAS wiki				Jim L	Spin model and eclipse processing, L0->L1 processing		
4748	Jumps in FGS and FGL around times of FGM range changes	07/29/13			Jim L	May be a dropped sample at the time of the range change? Problem goes away with the start of the next L0 packet.		
	Jim M							
4947	Evaluate despike algorithm from GSFC code				Jim M			
4943	Gaps and spikes in AE index as shown on summary plots.		Vassilis		Jim M	Code now in production		
4980	Adjust upper energy range of SST overview plots, multi-probe plots, and any other SST electron plots.		Vassilis		Jim M	Updated in repository, not yet in production		
4962	Reprocess THEMIS AE index & summary plots to remove spikes and gaps, fix SST energy ranges				Jim M?	After 4980 (should start 12-23-2013)		
4977	MAVEN plugin		Mini-GEM		Jim M	Start with the "boilerplate" plugin code to get a MAVEN tab implemented; "guts" of the plugin will be implemented as instrument leads develop their data products & load routines.		
4965	SPEDAS wiki				Jim M	ESA instrument info, data structures, calibration processes		
4732	Rename TDAS to SPEDAS for next release	06/25/13	GEM-SPEDAS		Jim M	Get some feedback from SVN users before committing to the repository reorg On hold until we're sure what the final name will be.		
4758	Clean up s/c potential (onboard and ground), FBK and EFS data for time intervals when SDTs are running				Jim M?	Cleanup to be done in L1->L2 processing, using time intervals when SDTs were being run. Eliminate this contaminated data from summary plots and L2 data files. Time intervals to be provided by MOC and/or John Bonnell. After Jim L's task 4921.		
4927	Rename SPEDAS str_replace function to resolve conflict with Fanning's popular "Coyote graphics" IDL library.				Jim M			
	Nick							

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4964	Populate SPEDAS wiki with content from user's guide				Nick			
4964	GOES summary plots (processing scripts, cron jobs, web site menus)				Nick			
4948	SPEDAS global configuration panel?		Jim L		Nick	Might be useful for non-plugin-specific configuration: tplot verbose level, command to launch browser, temp directory. Another tab in file configuration panel, or separate menu item for global vs. plugin config?		
4971	Crash when loading RBSP "ECT" particle data via CDAWeb		Mini-GEM		Nick	Related to 2-d array per sample?		
4961	Improve error reporting for cron jobs		Jim L		Nick?	The summary plot and AE index processing are particularly prone to misleading or confusing error reports. There is probably a lot of room for improvement in our logging and error reporting process for these and other automated processing jobs.		
	Pat							
	Updated FGM calibrations for solar array currents vs. spin phase?	5/30/2012	Vassilis	0	Pat	Last Recieved – Jan 2013. May need to remind FGM team if we go a long time without updates. Check again in mid-August 2013		
4718	Add new variables to SST L2 master CDF	06/06/13	SPDF		Pat	New SST calibrations working well enough to start making new L2 CDFs. Promoting to production 01-03-2014, will reprocess SST L2 for entire mission.		
4958	thm_load_esa_pot: nonstandard treatment of "datatype" keyword		Jim M		Pat	Rename datatype keyword to clarify that this is actually controlling where the spacecraft potential comes from, not the data types to load or process.		
4973	Best way to load higher-dimensional data into GUI?				Pat	Will this require changes in tplot? How can we support high-dimension data in the GUI (to at least allow it to be loaded, and let plugins supply the visualization/rendering code?) Probably not for upcoming release, but we should at least have a credible		
4959	SST calibrations: exclude samples immediately before/after attenuator state changes		Pat		Pat	Attenuator changes not perfectly synchronized with telemetry indications; results in glitches that can look like injections. Exclude these samples in calibration & L1->L2 processing.		
4978	FAST plugin		Bob Strangeway		Pat	Implement FAST plugin & gui tab; may duplicate some functionality from the CDAWeb interface but that's OK – it gives us a way to cleanly integrate any FAST-specific analysis and plotting tools, summary plots, etc.		
4945	Bad formatting in tplot variable labels		Pat	2	Pat	#2 This one has been around for a while but...the formatting codes for tplot var labels have very limited fixed widths. If I print something wider, I get a bunch of '****'s. An easy way to get this is if you try to do a var_label with position in km ins		
4929	Improve "basic" cribs		Pat		Pat	calc, trace, plotxy, plotxyz		