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Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
1 (high) =>dsdf.pl	->HK Level 0 ->MOC Dayfile Save and decode keywords data for asd dayfile and save keywords to asd HK by APID series(s do.lev0_ asd_0004)) - >dsdf.pl cronjob on producti on@j0.	Email messages with this subject. JSOC: (1)WARNIN G: Ingesting MOC dayfiles: status:No files loaded today	status:No files loaded today Warning Message: >Received count of <0> hkt files and count of <0> xml files	Product server. This should be done by	(1)Confirm the process that retrieves Dayfiles from MOC is working. Check with Art or Hao. (2-option a)Once this is working the process will pick up dayfiles for lost day(s) and the current day and save dayfiles at 10PM-PDT. (2-option b)If needed we can start save of dayfiles for lost day as soon as we get files retrieved by process that gets files from MOC Product Server>login to j0 as production. % cd /home/production/cvs/JSOC/proj/ lev0/scripts/hk % dsdf.pl moc>View log file to confirm saved dayfiles and decode asd dayfile. % view log-df-moc (3)There are processes that missed getting dayfiles and processing. These needed-scripts(temporary quickly done scripts not officially checked into cvs) processes run as cron jobs between 11-11:30PM PDT on production@j0. (NOTE:This script will be changed to using dsdf.pl once complete TRAC ticket #280) By checking log files(log-doAPID12, log-doAPID13, log-doAPID19, log-doAPID40) can see if runs were successful. (a) Keyword Data for APID 19 to hmi.temperature_summary series(For Sebastien and Jesper) ->Go to directory to update manually script. % cd /home/production/cvs/JSOC/proj/lev0/scripts/hk ->Change start day and end day in script to day(s) did not have day files. For example change \$i start value and 6 end value shown below: #(1)hardcode end day for month #for october 2008 use 1-31 days \$i=5; while (\$i < 6) {

Team # Ground First or First or Ground First or First or Ground First or First o
<pre>% vi getFilesFromDayfile_019v2.pl>Run % getFilesFromDayfile_019v2.pl b)APID 17,21,38,40 are less critical since these series are used by Master Pointing series to gather data. This data is used to up hmi.leg_status, hmi/aia iss series data. Since the master pointing series does not change HK lookup times often, this should not have a problem until we update the master pointer series. To do these updates. Repeat steps about described in 3a. Edit these files and then run. Remember v2 version in name of perl file is for hand editing and v3 version should not</pre>

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
2 (low-high) =>dsdf.pl	->HK Level 0 ->MOC Dayfile Save and decode keywords data for asd dayfile and save keywords to asd HK by APID series(s do.lev0_ asd_0004)) - >dsdf.pl cronjob on producti on@j0.	Email with subject: JSOC:WARN ING:Inges ting MOC dayfiles: status:Po ssible error ingesting dayfile.		next day there are	Action Problem Described(1): Probably not Problem. Confirm all 256 files were ingested by viewing log file(log- df-moc) and view the dayfiles are there in the three dayfile series for that day. Where three series are aia.hk_dayfile, hmi.hk_dayfile, sdo.hk_dayfile. Action for Problem Described(2): Confirm when SUMS/DRMS is working. Then follow similar procedure shown for item #1. The difference here is that, you will sse dayfiles(64 dayfiles + 64 xml files) on the dropoff directory. Since we had files but could not save, so kept files there for manual work around.

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
3 (high) =>gdfrt.pl	->HK Level 0 ->Real time Decode and save of keywords to asd series using Minute of data in RTMON Dayfile ->On producti on@j0 cron job to start script. Script at /home /product ion/cvs/ JSOC/pro j/lev0/s cripts/h k. % gdfrt.p l apid=129 pkt_size =128 % nohup monitor _df_rtm on.pl apid=129 &	(1) j0 server down or crashed email from admins (2) Email with subject: JSOC:WARN ING:INGES TING REALTIME DAYFILE FOR APID 129:Dayfi le does not exist (3)Email with subject: JSOC:WARN ING:INGES TING REALTIME DAYFILE FOR APID 129:Dayfi le is not getting new packets	continue running and resend another email notice if the data file is there and data starts flowing and stops again. >To restart monitor enter command: /home/production/cvs/J SOC/proj/lev0/sc ripts/hk/monitor _df_rtmon.pl apid=129 >To stop monitor run command(user=pro duction):/home/p roduction/cvs/JS OC/proj/lev0/scr	short delay when	Action Problem Described(1): Solution is to restart gdfrt.pl process with new LOG file marked with time restarted process. Restart monitor_df_rtmon.pl process. a)Login into j0 as production user on terminal window. Execute: % nohup gdfrt.pl apid=129 pkt_size=128 > LOG-RT- APID0x081-2010.05.11.09_10:00:00 & This process decodes minute of dayfile and saves keywords to sdo.lev0_asd_0004 series. b)Log on to j0 on another terminal window and execute: % nohup monitor_df_rtmon.pl apid=129 & This script monitors if dayfile is getting updated every 5 minutes, if not sends email warning. c) View if passing when processing. Note the is one issue shown in the log file as failed when processing more then 1 minute of data at beginning of run. This is really ok. % tail -f <log-rt-<whatever> d)View in LookData tool that data records are getting added to sdo.lev0_asd_0004. Action Problem Described(2): -Check j0 can see directory /hmisdp-mon/log/packetsContact Rock on why Lockheed not updating data to dayfiles. Action Problem Described(3): -Check j0 can see directory /hmisdp-mon/log/packetsContact Rock on why Lockheed not updating data to dayfiles.</log-rt-<whatever>

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
4 (high) =>gdfrt.pl	->HK Level 0 ->Real time Decode and save of keywords to asd series using Minute of data in RTMON Dayfile ->On producti on@j0 cron job to start script. Script at /home /product ion/cvs/ JSOC/pro j/lev0/s cripts/h k. The cronjob script executio n with argument s: gdfrt.p l apid=129 pkt_size =128	(1)Email with subject: JSOC:ERRO R:HK Level 0 Real Time Processin g failed to decode minute dayfiles.	into keywords and write keywords to hk data series for apid <129>.	(1)Possib le problems: (a)drms data base is down for service (b)drms data series does not exist.	Action Problem Described(1a): Check with team if drms database is down for service. If down, then as soon as comes back up the script will begin processing where last successfully processed data. Confirm in log file (/home/production/cvs/JSOC/proj/le v0/scripts/hk/log-gdfrt-apid-129) that the processing is being done successfully. If not successfully processing review log for reason why failing. Sidebar 1: If the drms is down for less than two days and this process continues to run. The script will auto process previous days dayfile before starting processing of current dayfile(0 UTC = 5pmPDT). If greater than two day's of drms down, auto processing will not occur for previous files 2-n days back. Action Problem Described(1b): First check the dataseries in log file is existing in drms by doing show_info <name>. If does not exist, will need to create using jsd files auto created at /home/production/cvs/TBL_JSOC/lev0/hk_jsd_file/prod using create_series. The script should write to series with no errors. Second check, since the gdfrt.pl calls decode_dayfile. decode_dayfile's series name setup could be incorrect in SOURCE_ENV_FOR_HK_DECODE_DAYFILE which is in directory /home/production/cvs/JSO C/proj/lev0/apps. This name change could occur if the HK config files from Lockheed are updated.</name>
5 (low) =>dsdf.pl	->HK	Email message	Warning Message: >Received	The RT Dayfile	(Step 1)Verify issue: Check if RT dayfile in

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Item #	Module	Error or	Total Message	Problem	Solution/
(priority)	Componen	Warning		Described	Actions Required
=>exec or	t/				_
script	Subcompo				
name	nent/				
	Executab				
	le				
	1e				
	Level 0	with this	count of <1> hkt	was not	sdo.hk_dayfile series where date
	->RTMON	subject:	files and count	saved to	is day of problem and
	Dayfile	JSOC:WARN	of <1> xml files	dayfile	source=rtmon. Check log file at
	Save of	ING: Inges	from directory	series.	log-df-rtmon for information on
	only ASD	ting	<th></th> <th>warning.</th>		warning.
	Dayfile	RTMON	mon/log/packets>	Possible	Check for dayfile at drop
	_	dayfiles:		problems:	directory defined in dsdf.pl and
	>dsdf.pl	status:Po	>When	(1)SUMS/D	pickup directory in
	cronjob	ssible	executing script	RMS down	ingest_dayfile.pl
	on	error	<th></th> <th>lingest_daylile.pi</th>		lingest_daylile.pi
	producti	ingesting	n/cvs/JSOC/proj/	not save	(Step 2)Manual save RT dayfile
	on@j0.	dayfile.	lev0/scripts/hk/	files.	that failed last night. Execute
	011@] 0.	dayrire.	dsdf.pl> from	TITES.	the manual command to save asd
			cron job.	(2)Path	
			cron job.	setup to	rtmon dayfile to sdo.hk_dayfile.
				_	ssh or login to j0 as production
			there is problem. The	pickup or	user. Since we are save only asd
			-	drop off	files(apid in hex use 81) use
			dayfiles to	dayfile	command with apid=81. Set merged
			ingest into data	was not	value to 0 which mean save dayfile
			series and	correct.	only. Utilize src=rtmon because
			delete from		file is in rt filename format. The
			directory did	(3)No	dsnlist is a map to tell script
			not match the	dayfile	were save dayfile.
			count of the	on /hmisd	
			dayfiles	p-mon	a)Save dayfile:
			received.	server.	8
			>Possibly a		cd /home/production/cvs/JSOC/proj/
			problem	(4)J0 has	lev0/scripts/hk
			ingesting	no access	
			dayfiles in	to	% ingest_dayfile.pl apid=81
			series because	hmisdp-	dsnlist=./df_apid_ds_list_for_rtmo
			of bad setting	mon	n src=rtmon merged=0
			of SUMSERVER	server.	
			parameter or		
			SUMS could be		b) Verify files save by checking
			not available.		LookData tool with sdo.hk_dayfile.
			>Possibly not		
			an issue which		c)Clean files:
			was caused by		9
			the dayfiles not		cd /tmp21/production/lev0/hk_rtmon
			being ingested		_dayfile
			on previous		% rm <files saved=""></files>
			day(s) therefore		% vi DF_DELETE_FILE_LIST_RTMON
			the file count		(Remove files saved already)
			received today		
			does not match		(Step 3)Fix issue, if needed to,
			files ingested.		described in list issues in
					Problem Description column. Verify
					tomorrow no warning email is send.
					Verify log has no errors.
					verity rog has no entors.

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Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
6 (low) =>dsdf.pl	->HK Level 0 ->RTMON Dayfile Save of only ASD Dayfile - >dsdf.pl rtmon cronjob on producti on@j0.	subject:	Similar to item #1 except this is for RTMON or Real time day files. This RTMON refers to HK_SOURCE keyword setting in <aia hmi sdo>.hk_dayfile series.</aia hmi sdo>	(1)Path setup to pickup or drop off dayfile was not correct. (2)No dayfile on /hmi-sdp server. (3)JO has no access to hmi-sdp server therefore cannot reach dayfile.	(Step 1) Check with j0 see hmisdpmon directory. Check if asd dayfile there(apid is 0x81). (Step 2) Follow similar step as item #3

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
7 (high) =>dsdf.pl	->HK Level 0 ->RTMON Dayfile Save of only ASD Dayfile - >dsdf.pl rtmon cronjob on producti on@j0.	Email message with this subject: Subject: JSOC:WARN ING:M3SD Processin g of six RTMOC dayfiles into housekeep ing data series was NOT done.	expected <6> dayfiles using load_m3sd executable.	(1) Path setup to pickup or drop off dayfile was not correct. (2) No dayfile on /hmi-sdp server. (3) JO has no access to hmi-sdp server therefore cannot reach dayfile. (4) DRMS down so could not save decoded keywords to series and save dayfiles to series.	(Debug Problem 1) Check drop off directory there on j0. Check pick up directory there. Check paths in script dsdf.pl for rtmon processing. % ls /tmp22/production/lev0/hk_hsb_d ayfile % ls /hmisdp- mon/log/packets/0x0011/ (Debug Problem 2) Check if j0 machine sees hmisdp- mon directory. Check if asd dayfile there(apid is 0x81), and decimal apid 17(0x11), 19(0x013,21(0x015),38,40 and 44 are there. % ls /hmisdp- mon/log/packets/0x0011/ (3)Debug Problem 3) Check if j0 machine sees hmisdp- mon directory. Do ls for files. %ls /hmisdp- mon/log/packets/0x0011/ (4)Debug Problem 4) Check if DRMS is down. ACTION for (1)-(4) (a) Determine if need to run manually processing for 6 apids -Check series for missing records. Use log file to see usually count of records load per day for each series and check if records missing. (b)If have missing record will need to rerun load_m3sd executable as production@j0. (c) If moc dayfile processing already ran and still have missing records per day. Then after running load_m3sd with rtmon dayfile then run load_m3sd with moc dayfile. (d)Save rtmon dayfile.pl script using ingest_dayfile.pl script using src=rtmon.

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
8. (low) =>getdf.pl	->HK Level 0 ->HSB Dayfile Save >getdf.p l hsb cronjob	Email message with subject: JSOC:WARN ING:Inges ting HSB dayfiles:	requiring action> ISSUE Found:		1b-1e. Step (1)(b) go to production@j0
	on producti on@j0.	status: Found Old HSB	(1)0ld Dayfile(s) were found and need	v0 executabl e write	% ssh -1 production j0

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Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
		Dayfile Not Processed ->Action Required	to be loaded in dayfile series> ACTIONS To Do: (1)Run ingest_dayfile.p l with src=hsb_r to load these old dayfiles. Then confirm loaded in hk_dayfile series and then delete each dayfile(s)> List of <18> Old Dayfile(s) are: hsb_0478_2010_09 _29_03_20_51_00. hkt hsb_0475_2010_09 _14_00_36_04_00. hkt hsb_0451_2010_09 _14_00_36_59_00. hkt	_	O/scripts/hk Step(1)(c)Save files in dayfile series using script. For day 9/29 use this. Important to note to use hsb_r. Also do not save or delete current dayfiles being updated, let auto process do this(getdf.pl hsb). ==>Best Way %ingest_dayfile.pl apidlist=./df_apid_list_day_fil e_hsb_r start=2000929 end=2000929 dsnlist=./df_apid_ds_list_for_h sb_r src=hsb_r merged=0 ==>Slower Way % ingest_dayfile.pl apid=48 start=2000929 end=2000929 dsnlist=./df_apid_ds_list_for_h sb_r src=hsb_r merged=0 (repeat command with different times and/or apid as needed) Step 1(d) Now, check got loaded using lookdata web tool for <aia hmi="" ="">.hk_dayfile Step 1(e) Clear list of old hsb dayfiles to delete from DF_DELETE_FILE_LIST located in /home/production/cvs/JSOC/pr oj/lev0/scripts/hk. This step needs to be done because the auto script getdf.pl uses DF_DELETE_FILE_LIST file too. Step 1(f) Remove files from tmp22 %rm /tmp22/production/lev0/hk_h sb_dayfile/*_09_29*</aia>

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required