

Routine	Called by	Calculates	Uses	Time Status
ACCUM	CHKFAT NEWPRO	Partial sums for FAT	MRTIN	Captures FAT Start and Stop times—uses HSTART, HSTOP
AHEADPRINT	AVGPNT	Listing of SAT Header items	AVES	Doesn't Matter
ANGREX	CHKFAT LNGCHK LNGGEN MRTAVG OLD_OUTPUT OUTPUT QCA_GEN SCNALL SCNAVG	IANGER IUANGER	FOUT ASTUFF	Doesn't Matter
AVGCF	AVGPNT	Fills print line 5	AVES	
AVGFLG	LNGCHK LNGGEN QCA_GEN	Prints Flag time.	AVES	Adds 1900 to IYR
AVGGG	AVGPNT	Fills print line 4	AVES	Doesn't matter
AVGNN	AVGPNT	Fills print line 2	AVES	Doesn't matter
AVGPGE	AVGPNT	Page eject & title	AVES	Doesn't matter
AVGPNT	VGER VGER3 VGERJWM VGER_ALT VGER_CHK VGER_CHK1 VGER_REF	Generates a listing file from SAT format data.	AVES	Uses HOURS to control beginning and end. Uses AVSTART and AVSTOP to make Year
AVGUN	AVGPNT	Fills Print line 3	AVES	Doesn't matter
AVSTART	AVGPNT	Extracts YY/DD	AVES	Adds 1900 to IYR
AVSTOP	AVGPNT	Extracts YY/DD	AVES	Adds 1900 to IYR
BEGNEX	LNGCHK LNGGEN QCA_GEN	Initializes PSTUFF, GSTUFF, CSTUFF, ASTUFF, INSTUFF	V1CHNL.DAT V2CHNL.DAT	Doesn't matter
CHARCHG	CHKFAT CR5_RECAVG HSTART QCA_GEN	Character manipulation	Arguments	Doesn't matter
CHKUP	LNGCHK LNGGEN	Filtering for SAT averages	Own push down stack	Doesn't matter
CMRTTIM	MRTPRINT_NE W MRTPRINT_NO_ ZERO	Returns time offset of logics in MRT record.	Arguments Plus Data statements	Doesn't matter
COMMAND	VGER VGER3 VGERJWM VGER_ALT VGER_CHK VGER_CHK1	Command interpreter—chang es strings into numbers to control a program flow	Arguments	Doesn't matter.

	VGER_REF			
COMPEX	CHKFAT LNGCHK LNGGEN MRTAVG OLD_OUTPUT OUTPUT QCA_GEN SCNALL SCNAVG	Computes composition ratios for spin averaged fluxes	FOUT, CSTUFF	Doesn't matter.
CR5_RECAVG	NEWGEN	Special average for cruise 5A	MRTIN FOUT	Doesn't matter.
CREADMR	MRTAVG MRTPRINT_NEW MRTPRINT_NO_ZERO	Character mode read of MRT file.	Arguments	Doesn't matter.
CSUBCHK				
CTIMCAL	MRTPRINT_NEW MRTPRINT_NO_ZERO		MRTIN	Doesn't matter.
DECIDE	REVOUT	Finds solar and background sectors to exclude from scan average	MRTIN	Doesn't matter.
DECIDED	MRTAVG SCNAVG SCNALL	Finds solar and background sectors to exclude from scan average		Doesn't matter. Ignores solar after 1988
DEFAULT				
FATFLG	CHKFAT NEWGEN QCA_GEN SCNALL SCNAVG SCNDEAD UNDEAD VGER VGER3 VGER_JWM VGER_ALT VGER_CHK VGERCHK1 VGER_REF	Prints time from FAT record to output screen or file	FOUT	Adds 1900 to IYR.
FATPNT	VGER VGER3 VGER_JWM VGER_ALT VGER_CHK VGERCHK1 VGER_REF	Print listing of FAT data	FOUT	Adds 1900 to IYR
FATSTP	FIXTIM MRTAVG SCNAVG	Returns float hours of stop	Argument IHED	Adds 1900 to IYR

	SCNALL			
FATTIM	CHKFAT FATTIM FIXTIM MRTAVG OLD_OUTPUT SCNALL SCNAVG	Returns float hours of start	Argument IHED	Adds 1900 to IYR
FHEADPRINT				
FILLCF				
FILLGG				
FILLNN				
FILLSTP				
FIXAEX				
FIXTIM				
FLUXEX				
GAMMEX				
GETPOS				
HEDFIL				
HEDFIL L				
HOURINV				
HOURS				
HOURS REV				
HSTART				
HSTOP				
INREAD				
ISITIN				
ISTART				
LNGCHK				
MRTFLG				
MRTHRS				
MRTPRINT_NE W				
MRTTIM				
MRT TIME				
MTRCHK				
NAMEINIT				
NEWBEG				
NEWGEN				
NEWMAP				
NEWPGE				
NEWPRO				
OUTPUT				
OUTREP				
READMR				
RECAVG				
RECTIM				
REVOUT				
SCALUP				
SCNAVG				
SCNDEAD				
SCNZOMB				
SETTIM				
SUBCHK				

SUM_REPORT				
TIMCAL				
TIMCHK				
TIMNOW				
TIMSET				
UNDEAD				
ZOMBIE				