

```

SIMPLE = T /Written by IDL: Wed Oct 26 15:29:48 2016 BITPIX =
8 / NAXIS = 0 /
EXTEND = T /File contains extensions DATE =
'2016-10-26T15:29:48' /File creation date (YYYY-MM-DDThh:mm:ss UTC) ORIGIN = 'HESSI'
/Origin of FITS file TELESCOP= 'HESSI' /Telescope or
mission name INSTRUME= 'HESSI' /Instrument name
OBJECT = 'Sun' /Observed object OBSERVER=
'Unknown' /Name of the user who genrated the file RA =
0.00000 /Source right ascension in degrees DEC = 0.00000
/Source declination in degrees RA_NOM = 0.00000 /r.a. nominal
pointing in degrees DEC_NOM = 0.00000 /dec. nominal pointing in
degrees EQUINOX = 2000.00 /Equinox of celestial coordinate system
RADECSYS= 'FK5' /Coordinate frame used for equinox DATE-OBS=
'2014-08-15T01:21:24.000' /Data start time UT DATE-END= '2014-08-
15T01:49:20.000' /Data end time UT TIMVERSN= 'OGIP/93-003'
/OGIP memo number where the convention used VERSION = '1.2' /File format
version number AUTHOR = 'OSPEX' /Software that created
this file END
XTENSION= 'BINTABLE' /Binary table written by MWFITS v1.13 BITPIX =
8 / NAXIS = 2 /
NAXIS1 = 1664 /Number of bytes per row NAXIS2 =
28 /Number of rows PCOUNT = 0 /Normally
0 (no varying arrays) GCOUNT = 1 /Required value
TFIELDS = 31 /Number of columns in table COMMENT
COMMENT *** End of mandatory fields *** COMMENT
DATE = '2016-10-26T15:29:48' /File creation date (YYYY-MM-DDThh:mm:ss UTC) ORIGIN =
'HESSI' /Origin of FITS file TELESCOP= 'HESSI'
/Name of the Telescope or Mission INSTRUME= 'HESSI' /Name of the
instrument OBJECT = 'Sun' /Observed object
OBSERVER= 'Unknown' /Name of the user who genrated the file RA =
0.000000000000 /Right Ascension (in degrees) DEC = 0.000000000000
/Declination (in degrees) RA_NOM = 0.000000000000 /r.a. nominal
pointing in degrees DEC_NOM = 0.000000000000 /dec. nominal pointing in
degrees EQUINOX = 2000.00000000 /Equinox of celestial coordinate system
RADECSYS= 'FK5' /Coordinate frame used for equinox DATE-OBS=
'2014-08-15T01:21:24.000' /Nominal U.T. date when integration of this DATE-END= '2014-08-
15T01:49:20.000' /Nominal U.T. date when integration of this TIMVERSN= 'OGIP/93-003'
/OGIP memo number where the convention used VERSION = '1.2' /File format
version AUTHOR = 'OSPEX' /Name of program that
produced this file EXTNAME = 'RATE' /Extension Name
FILTER = ' ' /Filter in use TIMEUNIT= 'd'
/Unit for TIMEZERO, TSTARTI and TSTOPI TIMEREf = 'LOCAL'
/Reference frame for the times MJDREF = 43874.000000 /TIMESYS in
MJD (d) TIMESYS = '1979-01-01T00:00:00' /Reference time in YYYY
MM DD hh:mm:ss TIMEZERO= 13010.000000 /Start day of the first bin rel to
TIMESYS TSTARTI = 13010 /Integer portion of start time rel to TIMESYS
TSTARTF = 0.0565277777778 /Fractional portion of start time TSTOPI =
13010 /Integer portion of stop time rel to TIMESYS TSTOPF = 0.0759259259259
/Fractional portion of stop time TASSIGN = 'SATELLITE' /Place of
time assignment TIERRELA= 0.000000000000 /Relative time error
TIERABSO= 0.000000000000 /Absolute time error ONTIME =
1676.00000000 /Exposure time in seconds TELAPSE = 1676.00000000
/Elapsed time in seconds CLOCKCOR= 1 /Clock
Correction to UT POISSERR= 0 /Poisson Error
HDUCLASS= 'OGIP' /File conforms to OGIP/GSFC convention HDUCLAS1=
'SPECTRUM' /File contains spectrum HDUCLAS2= 'TOTAL'
/Extension contains a spectrum HDUCALS3= 'TYPE:II' /Multiple PHA
files contained HDUCLAS4= 'RATE' /Extension contains rates
HDUVERS = '1.2' /File conforms to this version of OGIP ANCRFILE=
' ' /Name of the corresponding ancillary response fileAREASCAL= 1.00000000000
/Area scaling factor BACKFILE= ' ' /Name of the
corresponding background file BACKSCAL= 1.000000000000 /Background scaling factor
CORRFILE= ' ' /Name of the corresponding correction file CORRSCAL=
1.000000000000 /Correction scaling factor EXPOSURE= 1676.00000000
/Integration time, corrected for deadtime and datGROUPING= 0 /No grouping

of data has been defined QUALITY = 0 /No quality information is
specified DETCHANS= 41 /Total number of detector channels
available CHANTYPE= 'PI' /Channels assigned by detector electronics
GEOAREA = 158.360000000 /Detector area for data in fit results (cm^2) VIGNET =
0.000000000000 / DETNAM = ' '

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/Detector name NPIXSOU = 0.00000000000 /
BACKAPP = 0 /Flag to indicate whether correction was applied DEADAPP =
1 /Flag to indicate whether correction was applied VIGNAPP = 0 /Flag to
indicate whether correction was applied DETUSED = ' ' /
SUMFLAG = 1 /Spectra summed over detectors SUMCOINC=
0 / COINCIDE= 0 /Anti-
coincident spectra RESPFILE= 'hsi_qsrcm_20140815_012124.fits' /Name of
the response file FITFUNC = 'vth+3pow' /Fit function used
PHAFILE = 'hsi_qspec_20140815_012124.fits' /Name of the spectrum file TUNIT3 = 's
' / TUNIT5 = 'counts/s' /
TUNIT6 = 'counts/s' / TUNIT7 =
'counts/s' / TUNIT8 = 'counts/s'
/ TUNIT10 = 'counts/photon' /
COMMENT COMMENT ***
Column names *** COMMENT
TTYPE1 = 'SPEC_NUM' / TTYPE2 =
'CHANNEL ' / TTYPE3 = 'TIME '
/ TTYPE4 = 'TIMEDEL ' /
TTYPE5 = 'RATE ' / TTYPE6 =
'STAT_ERR' / TTYPE7 = 'BK_RATE '
/ TTYPE8 = 'BK_ERROR' /
TTYPE9 = 'CHISQ ' / TTYPE10 =
'CONVFAC ' / TTYPE11 = 'EMASK '
/ TTYPE12 = 'PHMODEL ' /
TTYPE13 = 'RESIDUAL' / TTYPE14 =
'FILTER ' / TTYPE15 = 'FIT_DONE'
/ TTYPE16 = 'FREEMASK' /
TTYPE17 = 'FUNC_SPECTRUM' / TTYPE18 =
'FUNC_MODEL' / TTYPE19 =
'CHIANTI_VERSION' / TTYPE20 = 'ABUN_TABLE'
/ TTYPE21 = 'SOURCE_XY' /
TTYPE22 = 'SOURCE_ANGLE' / TTYPE23 =
'PARAMS ' / TTYPE24 = 'STARTPAR'
/ TTYPE25 = 'MINIMA ' /
TTYPE26 = 'MAXIMA ' / TTYPE27 =
'SIGMAS ' / TTYPE28 = 'UNCERT '
/ TTYPE29 = 'MAXITER ' /
TTYPE30 = 'NITER ' / TTYPE31 =
'STOPMSG ' / COMMENT
COMMENT *** Column formats *** COMMENT
TFORM1 = 'I ' / TFORM2 =
'41J ' / TFORM3 = 'D '
/ TFORM4 = 'E ' /
TFORM5 = '41E ' / TFORM6 =
'41E ' / TFORM7 = '41E '
/ TFORM8 = '41E ' /
TFORM9 = 'E ' / TFORM10 =
'41E ' / TFORM11 = '41B '
/ TFORM12 = '41E ' /
TFORM13 = '41E ' / TFORM14 = 'E
' /
TFORM16 = '9E ' / TFORM17 = '8A
' /
TFORM19 = '5A ' / TFORM20 =
'11A ' / TFORM21 = '2E '
/ TFORM22 = 'E ' /
TFORM23 = '9E ' / TFORM24 = '9E
' /
TFORM26 = '9E ' / TFORM27 = '9E
' /
TFORM29 = 'I ' / TFORM30 = 'I
' /
TFORM31 = '11A ' / COMMENT
COMMENT ***
Column dimensions (2 D or greater) *** COMMENT
TDIM17 = '(4, 2) ' / TDIM18 =
'(7, 2) ' / COMMENT absTime[i] =
mjd2any(MJDREF + TIMEZERO) + TIME[i] END

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@@@@
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ÌByØ+AžÜ0@äÄZ@BÈ?'Ä>ÜÈP>-¥t='G<ÿ~<h*;x?i;Ižn:¼-Ä:39@~t9 È98~x:8@¶7šÖæ7 ü6}
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[ĴAl"FA_zAdA„AšCèAv,[AYRāAf#A^•A]CĭAO|àAuā'AcŌŸACæA/WĭA0Ah?µ-µ?Jéš?9ĀĒ>Ĵ!>"iŌ>ŸĀ?Ā¬^€Ÿ?G
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ÇĀèĴĀŸ-£ĀŸ&Ā¾Ē†ĀĐĒ-ĀĪpæĀ,ā Ā,ImĀ" ,Ō@QJ^@_<u@ĒēŸ@@"f?•^?ĭ>š@'u?f°@>Đ>->µ''Ē>˘±@>-
hŌ>æŪ_>ĒĒ&>éæ?
! ?6Īš?rĪŌ?gF?)? 'X6?SP?Ō€K?āB@|?Æ†ă?² ,?¬Ÿv?Ÿ2™@€?ñé'?è! ?Ī]?ŌŸN?Āg...?è8! ?ĀŌ£?æ,ĭ?f¹Ē?f²vA-
Ī€\$Ē@€-B@HĀ@:ēw@k>ò@ĭm[A%Đ@ŸŪĐ?ø˘.@-n@!''@SĀ@<2Ī@CĀ@ĭT@€^*€Çx@āM@ú''?
A.A%þAlqšAg ŌAk (A,İTAŌĪĭAdĭ²Aj0ŌĀ¾¬A¬ĭüAa«èAn×_Afß†AfqAZ¾A€-¿AmðèĀMĭ@A89ZA8z! ?ĒÇ˘?^Ç?
JÇ>˘Ōā>ž¬Ā?²,?ÇB]@°(÷?KL>MS=ð€N='* =ĭ¹@=ĭðµ>wc'>¬.^>Ēĭ²?Ū€?U,|?D÷?Y@ü?€Y?-²?ÇĪ?ŒŸŸ?Ÿ,^?³L
?ž&¹? -ŌB?èkF?ñŌ?ā˘?Ū˘n?¾h)?ĀŪ?†f?×S€?¬FŸ?^Ō?[†? [²Ç@ĭ€9\$¾@;jĀ<_f=F\$=£+1=ŌĒŪ>æ
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7.1.3sun_coronalĀMRĀCQSPBwŌ<¬t7?:±?€<â?Ā@ @ @BĒ@ @ @<¬m_?:'ā?€<â?
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Ā9Ō&ĀĪ]Āà†ĀĭāĀ²ĀĭvĀB¾ĀĀB˘UĀèYŌĀµhĀĀšĒēĀ&z@M˘÷@ %'€"ĀĴ@nyĪ@tþ?çé
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[illegible]

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EXTENSION= 'BINTABLE' /Written by IDL: Wed Oct 26 15:29:48 2016 BITPIX
= 8 / NAXIS =
2 /Binary table NAXIS1 = 1231 /Number of
bytes per row NAXIS2 = 1 /Number of rows
PCOUNT = 0 /Random parameter count GCOUNT =
1 /Group count TFIELDS = 43 /Number of
columns COMMENT
COMMENT *** End of mandatory fields *** COMMENT
EXTNAME = 'OSPEX Control Parameters' /Extension name DATE =
'2016-10-26T15:29:48' /File creation date (YYYY-MM-DDThh:mm:ss UTC) ORIGIN = 'HESSI'
/Origin of FITS file TELESCOP= 'HESSI' /Telescope o
mission name INSTRUME= 'HESSI' /Instrument name
OBJECT = 'Sun' /Observed object OBSERVER=
'Unknown' /Name of the user who genrated the file RA =
0.00000 /Source right ascension in degrees DEC = 0.00000
/Source declination in degrees RA_NOM = 0.00000 /r.a. nomina
pointing in degrees DEC_NOM = 0.00000 /dec. nominal pointing in
degrees EQUINOX = 2000.00 /Equinox of celestial coordinate system
RADECSYS= 'FK5' /Coordinate frame used for equinox DATE-OBS=
'2014-08-15T01:21:24.000' /Data start time UT DATE-END= '2014-08-
15T01:49:20.000' /Data end time UT TIMVERSN= 'OGIP/93-003'
/OGIP memo number where the convention used VERSION = '1.2' /File format
version number AUTHOR = 'OSPEX' /Software that created
this file COMMENT
COMMENT *** Column names *** COMMENT

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COMMENT      COLUMN NAMES
TTYPE1  = 'SPEX_FIT_MANUAL'      /
'SPEX_FIT_REVERSE'      /
'SPEX_FIT_START_METHOD' /
'SPEX_FIT_FIRSTINT_METHOD' /
'SPEX_FIT_INIT_PARAMS_ONLY' /
'SPEX_FIT_AUTO_ERANGE' /
'SPEX_FIT_AUTO_EMAX_THRESH' /
'SPEX_FIT_AUTO_EMIN' /
/
TTYPE11 = 'SPEX_FIT_TIME_INTERVAL' /
'SPEX_BK_ORDER'      /
'SPEX_BK_RATIO'      /
'SPEX_BK_SM_WIDTH'    /
'SPEX_BK_POISSON_ERROR' /
'SPEX_BK_EBAND'      /
'SPEX_BK_TIME_INTERVAL' /
/
TTYPE20 = 'SPEX_DATA_SEL'      /
'SPEX_UT_OFFSET'      /
'SPEX_IGNORE_FILTERS' /
'SPEX_ACCUM_TIME'      /
'SPEX_FILE_READER'      /
'SPEX_DRMFILE'      /
'SPEX_ALBEDO_CORRECT' /
'SPEX_ANISOTROPY'      /
'SPEX_SOURCE_ANGLE' /
'SPEX_SOURCE_XY'      /
'MCURVEFIT_ITMAX'      /
'MCURVEFIT_TOL'      /
'MCURVEFIT_QUIET'      /
'SPEX_ERROR_USE_EXPECTED' /
/
TTYPE36 = 'FIT_XVALS'      /
'FIT_COMP_FUNCTION'      /
'FIT_COMP_PARAMS'      /
'FIT_COMP_MINIMA'      /
'FIT_COMP_MAXIMA'      /
'FIT_COMP_FREE_MASK' /
'FIT_COMP_SPECTRUM' /
'FIT_COMP_MODEL'      /
COMMENT      *** Column formats ***
TFORM1  = 'I'      /
'      /
TFORM4  = '7A'      /
'      /
TFORM7  = 'E'      /
'      /
TFORM10 = 'I'      /
'56D      /
/
TFORM14 = 'I'      /
'      /
TFORM17 = '4D'      /
'      /
TFORM20 = 'A'      /
'      /
TFORM23 = '2D'      /
'      /
TFORM26 = 'I'      /
'      /
TFORM29 = '2E'      /
'      /
TFORM32 = 'B'      /
'      /
TFORM35 = '8A'      /
'108E      /
/
TFORM39 = '3E'      /
'      /
TFORM42 = '4A'      /
'      /

TTYPE2  =
TTYPE3  =
TTYPE4  =
TTYPE5  =
TTYPE6  =
TTYPE7  =
TTYPE8  =
TTYPE9  = 'SPEX_ERANGE'
TTYPE10 = 'SPEX_INTERVALS_TOFIT' /
TTYPE12 =
TTYPE13 =
TTYPE14 =
TTYPE15 =
TTYPE16 =
TTYPE17 =
TTYPE18 = 'SPEX_BK_SEP'
TTYPE19 = 'SPEX_SPECFILE'      /
TTYPE21 =
TTYPE22 =
TTYPE23 =
TTYPE24 =
TTYPE25 =
TTYPE26 =
TTYPE27 =
TTYPE28 =
TTYPE29 =
TTYPE30 =
TTYPE31 =
TTYPE32 =
TTYPE33 =
TTYPE34 = 'SPEX_UNCERT'
TTYPE35 = 'FIT_FUNCTION'      /
TTYPE37 =
TTYPE38 =
TTYPE39 =
TTYPE40 =
TTYPE41 =
TTYPE42 =
TTYPE43 =
COMMENT
COMMENT
TFORM2  = 'I'      /
'      /
TFORM3  = '12A      /
'      /
TFORM5  = 'I'      /
'      /
TFORM8  = 'I'      /
'      /
TFORM11 =
TFORM12 = 'I'      /
/
TFORM13 = 'I'      /
'      /
TFORM15 = 'I'      /
'      /
TFORM16 = 'I'      /
'      /
TFORM18 = 'I'      /
'      /
TFORM19 = '72A      /
'      /
TFORM21 = 'E'      /
'      /
TFORM22 = 'I'      /
'      /
TFORM24 = 'A'      /
'      /
TFORM25 = '70A      /
'      /
TFORM27 = 'E'      /
'      /
TFORM28 = 'E'      /
'      /
TFORM30 = 'J'      /
'      /
TFORM31 = 'D'      /
'      /
TFORM33 = 'I'      /
'      /
TFORM34 = 'E'      /
'      /
TFORM36 =
TFORM37 = '3A'      /
/
TFORM38 = '3E'      /
'      /
TFORM40 = '3E'      /
'      /
TFORM41 = '3B'      /
'      /
TFORM43 = '7A'      /
'      /
COMMENT

```

```
COMMENT *** Column dimensions (2 D or greater)*** COMMENT TDIM17 = '( 2, 2)' / TDIM36 = '( 2, 54)' END
```

previous_intcurrentA@@@AAdzû...
Adzû"Adzû"AdzûfAdzûfAdzû²Adzû²AdzûÄAdzûÄAdzûD
AdzûBAdzûBAdzûBAdzûBAdzûiAdzûiAdzûyAdzûyAdzûüAdzûü
AdzûüAdzûüAdzûü*Adzûü*Adzû9Adzû9AdzûHAdzûHAdzûWAdzûW
AdzûWAdzûWAdzûfAdzûfAdzûüAdzûüAdzûü,,Adzûü,,Adzûü"
üçAdzûüçAdzûü±Adzûü±AdzûüÀAdzûüÀAdzûüÏAdzûüÏAdzûüP
AdzûüiAdzûüiAdzûüüAdzûüüAdzûýAdzûý
AdzûýAdzûýAdzûý(εÿÿAdzû...
Adzû+Adzûý'Adzûý(/disks/sunstruck/raid2/hsi_qlook_specfile/hsi_qlspec_20140815_012124.fits
/disks/sunstruck/raid2/hsi_qlook_srmfile/hsi_qsrm_20140815_012124.fits?
€BwöÄMRÁQSP?PbMa<fx
vth+3pow@@@€@@@ @ @ @ Ä @ Ä @ ä @ à A A A A A A A A A A A
A¹™šA¹™šA¹©üA¹©üADôÃADôÃAZASZASZAq~Aq~A...¹'A...¹'A°oA"A°AYóAYóAf|³Af|³A´cÅA´cÅAÇUUAÜ?
ÔAU?ÔAOAÓBBBBBBæCBæCB#B#B3Î`B3Î`BF-ÉBF-ÉBZeBZeBPçëBPçëB,,EİB,,EİBİJBİJBİBİB İ7B İ7B±
B±
BÂþ¥BÂþ¥BÖ±¶BÖ±¶Bi]Bi]C~C~C5ÁC5ÁCi^Ci^C~~|C~
~|C>n^C>n^CR#ICR#ICg@jCg@jC~-zC~zC"C"Cşrcşrc"Âc"ÂcCĈCcCĈCÒ³CÒ³CaCaCîTCîTCüꞀCüꞀDúDúD"vth<
`UK?\$ 9?€Ûæÿ><#x
PùA
fullchianti