FPI L2 DES/DIS Partial Moments -- File Structure

Variable	Units	Type	Dim	Description
Epoch	ns	CDF_TIME_TT2000	1	Observation start time derived from packet time
errorflags	32-bit error flags	CDF_UINT4	1	Vector of data-quality indicators at epoch
numberdensity_part	cm^-3	CDF_REAL4	32	Number density for each starting energy
bulkv_part_dbcs	km/s	CDF_REAL4	32 x (3 x 1)	Bulk-velocity vector in DBCS for each starting energy
bulkv_part_gse	km/s	CDF_REAL4	32 x (3 x 1)	Bulk-velocity vector in GSE for each starting energy
prestensor_part_dbcs	nPa	CDF_REAL4	32 x (3 x 3)	Pressure tensor in DBCS for each starting energy
prestensor_part_gse	nPa	CDF_REAL4	32 x (3 x 3)	Pressure tensor in GSE for each starting energy
temptensor_part_dbcs	eV	CDF_REAL4	32 x (3 x 3)	Temperature tensor in DBCS for each starting energy
temptensor_part_gse	eV	CDF_REAL4	32 x (3 x 3)	Temperature tensor in GSE for each starting energy
temppara_part	eV	CDF_REAL4	32	Parallel temperature for each starting energy
tempperp_part	eV	CDF_REAL4	32	Perpendicular temperature for each starting energy
part_index	0-31	CDF_UINT2	1	Recommended energy index for this epoch
energy	eV	CDF_REAL4	32	Sky-map energy bin centers
energy_delta	eV	CDF_REAL4	32	Sky-map delta energies
scpmean	V	CDF_REAL4	1	Mean spacecraft potential derived from MMS Electric field Double Probe
bhat_dbcs	nT	CDF_REAL8	3	Unit vector magnetic field direction derived from MMS Fluxgate Magnetometers
gse_xform	N/A	CDF_REAL4	3 x 3	Matrix used to transform dbcs to gse