

IX.3.2B-SYSTEM-QINSTM SUBROUTINE QINSTM

Description

Subroutine QINSTM converts observed instantaneous data into time series for data types that do not allow missing data.

Calling Sequence

CALL QINSTM (STAID, DTYPE, INTVAL, UNITOT, NCOUNT, LOBS, OBS, IOBS, F HOUR, L HOUR, L WORK, WORK, LWKBUF, IWKBUF, INTERP, EXTRP, LTSDAT, TSDAT, J HOUR, N STEP, I REC, A INIT, L ERDTP, ERDTP, N ERDTP, I ERR)

Argument List

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
STAID	Input	A8	1	Station identifier
DTYPE	Input	A4	1	Data type code
INTVAL	Input	I*4	1	Data time interval
UNITOT	Input	A4	1	Output data units code
NCOUNT	Input	I*4	1	Number of values in array OBS
LOBS	Input	I*4	1	Dimension of array OBS
OBS	Input	R*4	LOBS	Array containing for each observation: o Julian hour of observation o observation
IOBS	Input	I*4	LOBS	Same as array OBS
F HOUR	Input	I*4	1	Julian hour of first observed data value
L HOUR	Input	I*4	1	Julian hour of last observed data value
L WORK	Input	I*4	1	Length of array WORK
WORK	Input	R*4	L WORK	Work array
LWKBUF	Input	I*4	1	Length of array IWKBUF
IWKBUF	Input	I*4	LWKBUF	Work array
INTERP	Input	I*4	1	Interpolation indicator

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
EXTRP	Input	R*4	1	Extrapolation factor
LTSDAT	Output	I*4	1	Dimension of array TSDAT
TSDAT	Output	R*4	LTSDAT	Array containing time series data
JHOUR	Output	I*4	1	Julian hour of first data value in array TSDAT
NSTEP	Output	I*4	1	Number of values in array TSDAT
IREC	Input	I*4	1	Record number of time series in Processed Data Base
AINIT	Input	R*4	1	Value used to initialize arrays WORK and TSDAT
LERDTP	Input	I*4	1	Length of array ERDTP
ERDTP	Input	A4	1	Array of data types that had errors
NERDTP	Input	I*4	1	Number of data types in array ERDTP
IERR	Output	I*4	1	Status code