

IX.3.2B-SYSTEM-QINSTN SUBROUTINE QINSTN

Description

Subroutine QINSTN converts observed instantaneous data into a time series for data types that do allow missing data.

Calling Sequence

CALL QINSTN (STAID, DTYPE, INTVAL, UNITIN, UNITOT, NCOUNT, LOBS, OBS, IOBS, F HOUR, L HOUR, L WORK, WORK, L WKBUF, I WKBUF, L TSDAT, 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
UNITIN	Input	A4	1	Input data units code
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
L WKBUF	Input	I*4	1	Length of array I WKBUF
I WKBUF	Input	I*4	L WKBUF	Work array

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
LTSDAT	Output	I*4	1	Dimension of 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	1	Status code