IX.4.4B-PRDTSn PROCESSED DATA BASE FILE PRDTSn

<u>Purpose</u>

Files PRDTSn contain the Processed Data Base time series data.

<u>Description</u>

ATTRIBUTES: fixed length 64 byte binary records

RECORD STRUCTURE:

Variable	<u>Type</u> Din	nension <u>H</u>	Word Position	Description		
The first record contains file control information:						
LUNIT	I*4	1	1	File unit number		
MAXREC	I*4	1	2	Maximum number of records		
NEXTRC	I*4	1	3	Next available record		
NDATYP	I*4	1	4	Number of data types in file		
LSTREC	I*4	1	5	Record number of last record read (used during execution only)		

The remaining records are the time series records. $\underline{1}/$

Word Position 2/									
<u>Variable</u>	Туре	Dimensio	n _ cmp/exp	Description					
The time series header records contain the following information:									
LTSHDR	I*1	1	1/1	Length of header in words - set to zero if the length is more than 256 when compacted					
IDTINT	I*1	1	1/2	Data time interval					
NVLINT	I*1	1	1/3	Number of values per data time interval					
	I*1	1	1/4	Not used					
NTSMAX	I*2	1	2/4	Maximum number of data values $\frac{3}{2}$					
NTSNUM	I*2	1	2/5	Actual number of data values					

<u>Variable</u>	Type	Dimension	Word Position <u>2</u> / 	Description
IPTREG	I*2	1	3/6	Location in the record of first regular data value
IPTFUT	I*2	1	3/7	Location in the record of first future data value: 0 = no future data
TSID	A8	1	4-5/8-9	Time series identifier
TSDTYP	A4	1	6/10	Data type code
TSUNIT	A4	1	7/11	Data units code
TSLOC	R*4	2	8-9/12-13	Latitude and longitude (degrees and tenths)
JULBEG	I*4	1	10/14	Julian hour of first data value
ITSFUT	I*4	1	11/15	<pre>If the code for the component that can write the data type is 'PP' then this is the record number of the future time series data; if the code for the component that can write the data type is 'FC' then this is the QPF flag with the following characteristics: 0 = QPF not used -1 = QPF used for the entire forecast run 1-120 = number of hours of QPF used in forecast run</pre>
			12/16	Unused
NRECNX	I*4	1	13/17	Record number of next time series record of the same data type
TSDESC	A20	1	14-18/18-22	Description
XBUF	?	?	19/23	Extra Buffer <u>4</u> /
The time	series	data reco	ords contain	the following information:
TS	R*4	TSMAX	?/?	Time series data
otes:				

Notes:

 $\underline{1}/$ The number of records used for a time series can be computed as follows:

```
NREC= (NWORDS+LRECLT-1) / LRECLT
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where NREC is the number of records NWORDS is the number of words LRECLT is the number of words per record

The number of words can be computed as follows:

NWORDS=LTSHDR+LXBUF+NTSMAX

where NWORDS is the number of records LTSHDR is the number of words in the time series header LXBUF is the number of words in XBUF NTSMAX is the maximum number of time series values <u>3</u>/

 $\underline{2}/$ 'cmp' is the word position as it is stored in the file in compacted form.

'exp' is the word position as it is returned in expanded form from routines RPRDH and RPRDFH (see Section IX.3.5B).

 $\underline{3}$ / The maximum number of data values can be computed as follows:

NTSMAX=MAXDAY*24/IDTINT*NVLINT

where NTSMAX is the maximum number of data values MAXDAY is the maximum number of days of data for the data type IDTINT is the data time interval NVLINT is the number of values per data time interval

4/ The Extra Buffer is an optional array and is defined if:

LENHDR-LENHED is greater than zero

where LENHDR is the length of the header in words LENHED is the minimum length of a header in words (stored in common block PDATAS)