

IX.5.4 FORECAST SYSTEM PREPROCESSOR PARAMETRIC DATA BASE ACCESS

Introduction

The Preprocessor Parametric Data Base (PPPDB) [[Hyperlink](#)] contains parametric data used by the Preprocessor Functions to produce time series and computational order information used by the Forecast Functions.

Access Routines

A description of the routines that can be used to access the PPPDB can be found in Section IX.3.6 [[Hyperlink](#)].

Access Notes

See Section IX.5.1 [[Hyperlink](#)] for general access information.

Routine RPPPCO must be called before data can be read from the PPPDB. This routine reads control information from the PPPDB into common blocks used by the read/write routines.

Routine WPPPCO must be called after data has been written to the PPPDB. This routine writes control information from common blocks used by the read/write routines to the PPPDB. WPPDCO must be called if any control information has changed.

If data has been written to the PPDB, all files must be closed by calling routine UCLOSL.

Example

The following example shows how to:

- o read the parameter record for the specified identifier and type
- o read all parameter records for the type GENL

```
C
PROGRAM MAIN
C
CHARACTER PARMID*8,PARMTP*4
CHARACTER STAID*8,DESCRP*20,STATE*4,GPS(5)*4
CHARACTER*72 CARD
PARAMETER (LARRAY=1000)
DIMENSION ARRAY(LARRAY)
C
INCLUDE 'uiox'
INCLUDE 'udebug'
INCLUDE 'upagex'
C
C
C SET INPUT/OUTPUT UNITS
ICD=5
LP=6
LPD=LP
LPE=LP
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C
C SET DEBUG OUTPUT UNIT NUMBER AND DEBUG AND TRACE INDICATORS
  IOGDB=6
  IPPTR=0
  IPPDB=0
C
C OPEN INPUT/OUTPUT UNITS
  CALL UPRIMO
C
C GET USER NAME
  CALL HGTUSR (PUSRID, ISTAT)
C
C PRINT USER IDENTIFIER
  WRITE (LP, *) 'USERID = ', PUSRID
C
C READ DATA BASE CONTROL RECORDS
  CALL RPPPCO (ISTAT)
  WRITE (LP, *) 'RPPPCO CALLED : ISTAT=', ISTAT
  IF (ISTAT.GT.0) GO TO 40
C
  IENDIN=0
C
C READ PARAMETER IDENTIFIER AND TYPE
10  PARMID=' '
  PARMTP=' '
  IALLGENL=0
  WRITE (LP, *) 'ENTER IDENTIFIER AND TYPE ',
*   '' 'ALLGENL'' OR <RETURN> TO QUIT'
  READ (ICD, ' (A)', END=30) CARD
  NSCAN=1
  CALL USCAN2 (CARD, ' ', NSCAN, PARMID, LPARMID, ISTAT)
  NSCAN=2
  CALL USCAN2 (CARD, ' ', NSCAN, PARMTP, LPARMTP, ISTAT)
C
C CONVERT TO UPPER CASE
  NCHAR=0
  NCONVT=0
  CALL ULC2CP (PARMID, LPARMID, NCHAR, NCONVT, ISTAT)
  CALL ULC2CP (PARMTP, LPARMTP, NCHAR, NCONVT, ISTAT)
C
  IF (PARMID.EQ.' ') GO TO 30
  IF (PARMID.EQ.'QUIT') GO TO 30
  IF (PARMID.EQ.'ALLGENL') THEN
    PARMID=' '
    PARMTP='GENL'
    IALLGENL=1
  ENDIF
C
  IPTR=0
C
C CHECK FOR SPECIAL PARAMETER TYPE
  IF (PARMID.EQ.'SNGL') PARMID=' '
C
C READ PARAMETER ARRAY
20  CALL RPPREC (PARMID, PARMTP, IPTR, LARRAY, ARRAY, NFILL, IPTRNX, ISTAT)
  WRITE (LP, *) 'RPPREC CALLED : ISTAT=', ISTAT
  IF (ISTAT.GT.0) GO TO 10
C
  WRITE (LP, *) 'PARMID=', PARMID, ' PARMTP=', PARMTP,
*   ' IPTR=', IPTR, ' NFILL=', NFILL, ' IPTRNX=', IPTRNX
C
  IF (IALLGENL.EQ.0) GO TO 10
C
C SET STATION INFORMATION
  NPOS=1
  IVSTAN=ARRAY (NPOS)
  NVAL=LEN (STAIID) / 4
  NPOS=NPOS+1

```

```

CALL UMEMOV (ARRAY (NPOS) , STAID, NVAL)
NPOS=NPOS+NVAL
NBRSTA=ARRAY (NPOS)
NVAL=LEN (DESCRP) /4
NPOS=NPOS+1
CALL UMEMOV (ARRAY (NPOS) , DESCRP, NVAL)
NPOS=NPOS+NVAL
STAEV=ARRAY (NPOS)
NPOS=NPOS+1
STALAT=ARRAY (NPOS)
NPOS=NPOS+1
STALON=ARRAY (NPOS)
NVAL=1
NPOS=NPOS+1
CALL UMEMOV (ARRAY (NPOS) , STATE, NVAL)
NPOS=NPOS+NVAL
NPOS=18
NGPS=ARRAY (NPOS)
NVAL=NGPS
NPOS=NPOS+1
CALL UMEMOV (ARRAY (NPOS) , GPS, NVAL)
C
C PRINT PARAMETER ARRAY INFORMATION
WRITE (LP, *) 'STAID=', STAID, ' DESCRP=', DESCRP,
* ' IVSTAN=', IVSTAN
WRITE (LP, *) 'NBRSTA=', NBRSTA, ' STAEV=', STAEV,
* ' STALAT=', STALAT, ' STALON=', STALON
WRITE (LP, ' (1X, A, I1, 5 (A, 1X)) ') 'GPS (1... ', NGPS, ') =',
* (GPS (I), I=1, NGPS)
C
C CHECK IF LAST RECORD OF THIS TYPE
IF (IPTRNX.GT.0) THEN
  PARMID=' '
  IPTR=IPTRNX
  GO TO 20
ENDIF
IF (IENDIN.EQ.0) GO TO 10
C
C CLOSE FILES
30 CALL UCLOSL
C
40 WRITE (LP, *) '- PROCESSING COMPLETED -'
C
STOP
C
END

```