

ADAS Subroutine cachkb

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      SUBROUTINE CACHKB( IUNIT , NBSEL , IBSEL ,  
&                      IZ0IN  , IZ0    ,  
&                      LOPEN  , IRCODE , DLPATH  
&                      )
```

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C ***** FORTRAN77 SUBROUTINE: CACHKB *****

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C PURPOSE: TO CHECK THE SELECTED BLOCK (IBSEL) OF DATA EXISTS IN THE
C INPUT DATA SET AND IF SO IT REPRESENTS THE ENTERED VALUES OF
C 'IZ0IN' (NUCLEAR CHARGE OF SELECTED IONISING ION ELEMENT).

C

C IT ALSO CLOSES THE INPUT DATA SET ALLOCATION IF OPEN.

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C CALLING PROGRAM: CASSZD

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C SUBROUTINE:

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C INPUT : (I*4) IUNIT = UNIT TO WHICH INPUT DATA SET IS ALLOCATED

C INPUT : (I*4) NBSEL = TOTAL NUMBER OF DATA-BLOCKS READ FROM INPUT
C DATA SET.

C INPUT : (I*4) IBSEL = INDEX OF DATA-BLOCK SELECTED FOR ANALYSIS

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C INPUT : (I*4) IZ0IN = REQUESTED: NUCLEAR CHARGE OF ELEMENT

C INPUT : (I*4) IZ0 = INPUT FILE: NUCLEAR CHARGE OF ELEMENT

C

C I/O : (L*4) LOPEN = INPUT : .TRUE. => INPUT DATA SET OPEN.

C .FALSE. => INPUT DATA SET CLOSED.

C OUTPUT: ALWAYS RETURNED AS .FALSE.

C OUTPUT: (I*4) IRCODE = RETURN CODE FROM SUBROUTINE:

C 0 => NO ERROR DETECTED.

C 2 => DISCREPANCY BETWEEN REQUESTED ELEMENT
C AND THAT IN INPUT DATA FILE.

C 3 => SELECTED DATA-BLOCK OUT OF RANGE OR
C DOES NOT EXIST.

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C (I*4) I4UNIT = FUNCTION (SEE ROUTINE SECTION BELOW)

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CA (C*80) DSNAME = DATA FILE NAME UNDER UNIX, INCLUDING PATH.

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C ROUTINES:

C ROUTINE SOURCE BRIEF DESCRIPTION

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C E2FILE ADAS OPEN DATA SET FOR SELECTED ELEMENT

C I4UNIT ADAS FETCH UNIT NUMBER FOR OUTPUT OF MESSAGES

C

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C K1/0/37

C JET EXT. 2620

C

C DATE: 06/06/91

C
C UNIX-IDL PORT:
C
C VERSION: 1.1 DATE: 25-1-96
C MODIFIED: TIM HAMMOND (TESSELLA SUPPORT SERVICES PLC)
C - CREATED FROM E2CHKB TO WHICH IT IS ESSENTIALLY
C IDENTICAL EXCEPT IT CALLS CAFILE RATHER THAN E2FILE
C AND HAS THE EXTRA PATHNAME VARIABLE DLPATH INCLUDED
C IN THE ARGUMENT LIST.
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CHARACTER*80	DLPATH			
INTEGER	IBSEL,	IRCODE,	IUNIT,	IZ0
INTEGER	IZ0IN,	NBSEL		
LOGICAL	LOPEN			