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C          3ND DIMENSION: PARENT INDEX
C INPUT : (R*8)  V3(,)  = THREE-BODY RECOMB. RATE COEFFT. VALUES.
C          (UNITS: CM**6/SEC-1)
C          VALUES FOR A SPECIFIC TEMPERATURE.
C          1ST DIMENSION: CAPTURING LEVEL INDEX
C          2ND DIMENSION: PARENT INDEX
C
C OUTPUT: (R*8)  VRED(,) = VECTOR OF RECOMBINATION RATE CONTRIBUTIONS
C          FOR EACH METASTABLE LEVEL.
C          (UNITS: SEC-1)
C          VALUES FOR GIVEN TEMPERATURE AND DENSITY.
C          1ST DIMENSION: METASTABLE LEVEL INDEX
C          2ND DIMENSION: PARENT INDEX
C
C          (I*4)  IM      = METASTABLE LEVEL ARRAY INDEX
C          (I*4)  IS      = ORDINARY EXCITED LEVEL INDEX
C
C ROUTINES: NONE
C
C NOTE:
C          VRED(IM,IP)  =      ( THE RECOMBINATION RATE FOR IM )
C                          +
C                          SUM( (the transistion rate from ordinary
C                              level IS to IM) x (the recombin-
C                              ation contribution for ordinary
C                              level IS) )
C
C                          ABOVE SUM IS OVER ALL ORDINARY LEVELS.
C
C
C AUTHOR:  HP SUMMERS  (UPGRADE OF BXSTKD BY PE BRIDEN)
C          K1/1/57
C          JET EXT. 4941
C
C DATE:    11/06/92
C
C UPDATE:  12/07/93  HPS - CHANGE STV DIMENSION TO R*4
C*****
C UNIX-IDL PORT:
C
C AUTHOR:  DAVID H BROOKS, UNIVERSITY OF STRATHCLYDE
C
C DATE:    UNKNOWN
C
C*****
C PUT UNDER SCCS CONTROL:
C
C VERSION: 1.1 DATE: 10/05/96
C MODIFIED: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C          - FIRST PUT UNDER SCCS
C
C-----

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C

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INTEGER	IMETR (NDMET) ,	IORDR (NDLEV)
INTEGER	IP , IT ,	NDLEV , NDMET
INTEGER	NDTEM , NMET ,	NORD
REAL*8	CC (NDLEV , NDLEV) ,	DENS
REAL	STV (NDLEV)	
REAL*8	V3 (NDLEV , NDMET)	
REAL*8	VEC (NDTEM , NDLEV , NDMET) ,	VRED (NDMET , NDMET)