```
====================================================================== Relabel
                                                                       Relabel
      PROGRAM RELABEL                                                  Relabel
      ===============                                                  Relabel
      VERSION 69-1 (APRIL 1969)                                        Relabel
      VERSION 73-1 (JUNE 1973)                                         Relabel
      VERSION 77-1 (SEPTEMBER 1977)                                    Relabel
      VERSION 80-1 (AUGUST 1980) IBM VERSION                           Relabel
      VERSION 83-1 (JANUARY 1983) COMBINED STATEMENT NUMBER SEQUENCE   Relabel
                                  AND LINE I.D. INTO ONE PROGRAM.      Relabel
      VERSION 86-1 (JANUARY 1986) FORTRAN-77/H VERSION                 Relabel
      VERSION 88-1 (JULY 1988)   *OPTION...INTERNALLY DEFINE ALL I/O   Relabel
                                  FILE NAMES (SEE, SUBROUTINES FILIO1  Relabel
                                  AND FILIO2 FOR DETAILS).             Relabel
                                 *IMPROVED BASED ON USER COMMENTS.     Relabel
      VERSION 89-1 (JANUARY 1989)*PSYCHOANALYZED BY PROGRAM FREUD TO   Relabel
                                  INSURE PROGRAM WILL NOT DO ANYTHING  Relabel
                                  CRAZY.                               Relabel
                                 *UPDATED TO USE NEW PROGRAM CONVERT   Relabel
                                  KEYWORDS.                            Relabel
                                 *ADDED LIVERMORE CIVIC COMPILER       Relabel
                                  CONVENTIONS.                         Relabel
      VERSION 92-1 (JANUARY 1992)*ADDED FORTRAN SAVE OPTION            Relabel
      VERSION 94-1 (JANUARY 1994)*COMPLETE RE-WRITE                    Relabel
                                 *OUTPUT MINIMUM NON-BLANK LENGTH FOR  Relabel
                                  EACH LINE - NO SEQUENCE NUMBERS.     Relabel
                                 *INCREASED MAXIMUM NUMBER OF LABELS   Relabel
                                  PER ROUTINE FROM 1000 TO 50,000      Relabel
                                 *CAN NOW PROCESS UPPER OR LOWER CASE  Relabel
                                  CODING.                              Relabel
                                 *SKIP IMBEDDED BLANKS IN KEYWORDS.    Relabel
                                 *ADDED WRITE(XX,XX,ERR=YYY,END=ZZZ)   Relabel
                                 *ADDED OPEN(XX,ERR=YYY,END=ZZZ)       Relabel
                                 *ADDED CLOSE(XX,ERR=YYY,END=ZZZ)      Relabel
                                 *INTEGER INSTEAD OF CHARACTERS IS NO  Relabel
                                  LONGER SUPPORTED - ALL CHARACTERS    Relabel
                                  MUST BE IDENTIFIED AS CHARACTERS.    Relabel
                                 *VARIABLE FILENAMES TO ALLOW ACCESS   Relabel
                                  FILE STRUCTURES                      Relabel
                                  (WARNING - INPUT PARAMETER FORMAT    Relabel
                                  HAS BEEN CHANGED)                    Relabel
                                 *CLOSE ALL FILES BEFORE TERMINATING   Relabel
                                  (SEE, SUBROUTINE ENDIT)              Relabel
      VERSION 96-1 (JANUARY 1996) *COMPLETE RE-WRITE                   Relabel
                                 *IMPROVED COMPUTER INDEPENDENCE       Relabel
                                 *ALL DOUBLE PRECISION                 Relabel
                                 *ON SCREEN OUTPUT                     Relabel
                                 *IMPROVED OUTPUT PRECISION            Relabel
                                 *DEFINED SCRATCH FILE NAMES           Relabel
                                 *INCREASED THE NUMBER OF LABELS       Relabel
                                  IN A ROUTINE FOR 5,000 TO 50,000     Relabel
      VERSION 99-1 (MARCH 1999)  *GENERAL IMPROVEMENTS BASED ON        Relabel
                                  USER FEEDBACK                        Relabel
      VERS. 2000-1 (FEBRUARY 2000)*UPDATED TO IGNORE ( AND ) IN QUOTES Relabel
                                 *GENERAL IMPROVEMENTS BASED ON        Relabel
                                  USER FEEDBACK                        Relabel
      VERS. 2002-1 (MAY 2002)    *OPTIONAL INPUT PARAMETERS            Relabel
                                 *CORRECTED END=, ERR=, WHEN I/O UNIT  Relabel
                                  NUMBER IS DIMENSIONED                Relabel
      VERS. 2004-1 (MARCH 2004)  *ADDED INCLUDE FOR COMMON             Relabel
                                 *INCREASED THE NUMBER OF LABELS IN    Relabel
                                  A ROUTINE FOR 50,000 TO 100,000      Relabel
      VERS. 2007-1 (DEC.  2007)  *72 CHARACTER FILE NAMES.             Relabel
      VERS. 2010-1 (Apr.  2010)  *General update based on user feedback Relabel
      VERS. 2012-1 (Aug.  2012)  *Added CODENAME                      Relabel
                                 *32 and 64 bit COMPATIBLE            Relabel
                                 *Added ERROR stop                    Relabel
      VERS. 2015-1 (Jan.  2015)  *Replaced ALL 3 way IF Statements.   Relabel
                                                                       Relabel
      OWNED, MAINTAINED AND DISTRIBUTED BY                            Relabel
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THE NUCLEAR DATA SECTION                                        Relabel
INTERNATIONAL ATOMIC ENERGY AGENCY                              Relabel
P.O. BOX 100                                                    Relabel
A-1400, VIENNA, AUSTRIA                                         Relabel
EUROPE                                                          Relabel
                                                                Relabel
ORIGINALLY WRITTEN BY                                           Relabel
-----------------------------------                            Relabel
Dermott E. Cullen                                               Relabel
                                                                Relabel
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---------------------------                                    Relabel
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Telephone  925-443-1911                                         Relabel
E. Mail    RedCullen1@Comcast.net                               Relabel
Website    http://home.comcast.net/~redcullen1                  Relabel
                                                                Relabel
PURPOSE                                                         Relabel
-------                                                         Relabel
THIS PROGRAM IS DESIGNED TO RE-LABEL A FORTRAN PROGRAM SO THAT  Relabel
STATEMENT LABELS ARE IN INCREASING ORDER IN INCREMENTS OF 10    Relabel
WITHIN EACH ROUTINE.                                            Relabel
                                                                Relabel
THE FOLLOWING TYPES OF FORTRAN STATEMENTS ARE CONSIDERED,       Relabel
                                                                Relabel
GO TO NN                                                        Relabel
GO TO (NN,MM,.....,JJ,KK),LL (MULTI LINE O.K.)                  Relabel
DO NN                                                           Relabel
IF(......) NN,MM,...JJ,KK                                       Relabel
IF(......) GO TO NN                                             Relabel
IF(......) GO TO (NN,MM,.....,JJ,KK),LL (MULTI LINE O.K.)       Relabel
IF(......) READ(.....,END=NN,ERR=MM)                            Relabel
IF(......) WRITE(.....,END=NN,ERR=MM)                           Relabel
READ(......,END=NN,ERR=MM)                                      Relabel
OPEN(......,END=NN,ERR=MM)                                      Relabel
                                                                Relabel
GO TO STATEMENTS MAY APPEAR IN THE FORM 'GO TO' OR 'GOTO'. IF   Relabel
THERE IS ROOM ON THE LINE 'GOTO' WILL BE CONVERTED TO 'GO TO'.  Relabel
WHETHER OR NOT 'GOTO' IS CONVERTED TO 'GO TO' IT WILL BE TREATED Relabel
AS IDENTICAL TO 'GO TO' FOR SUBSEQUENT PROCESSING AND RELACEMENT Relabel
OF STATEMENT NUMBERS.                                           Relabel
                                                                Relabel
ALL OTHER STATEMENT TYPES ARE NOT CHANGED. IN PARTICULAR ALL I/O Relabel
STATEMENTS AND ASSOCIATED FORMAT STATEMENTS ARE NOT CONVERTED.  Relabel
                                                                Relabel
WARNING                                                         Relabel
-------                                                         Relabel
THIS PROGRAM IS ONLY DESIGNED TO MAINTAIN ENDF/B PRE-PROCESSING Relabel
PROGRAMS, WHICH ONLY USE A RESTRICTED SET OF FORTRAN STATEMENT  Relabel
TYPES THAT CAN BE USED ON A VARIETY OF DIFFERENT TYPES OF       Relabel
COMPUTERS. THIS PROGRAM IS NOT DESIGNED TO HANDLE ALL POSSIBLE  Relabel
TYPES OF FORTRAN STATEMENTS.                                    Relabel
                                                                Relabel
THE FORTRAN STATEMENTS DESCRIBED ABOVE AND TREATED BY THIS PROGRAM Relabel
DO NOT INCLUDE ALL POSSIBLE FORTRAN STATEMENTS. AS SUCH THIS    Relabel
PROGRAM IS NOT COMPLETELY GENERAL AND SHOULD ONLY BE USED WITH  Relabel
PROGRAMS THAT ONLY USE THE FORTRAN STATEMENTS DESCRIBED ABOVE.  Relabel
                                                                Relabel
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO ERROR IN PROGRAMS Relabel
                                                                Relabel
OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINES FILIO1 AND FILIO2) Relabel
-------------------------------------------------------------- Relabel
UNIT  FILE NAME   DESCRIPTION                                   Relabel
----  ----------  -----------                                   Relabel
  2   RELABEL.INP  INPUT PARAMETERS                             Relabel
  3   RELABEL.LST  OUTPUT REPORT                                Relabel
 10   RELABEL.IN   PROGRAM TO READ                              Relabel
 11   RELABEL.OUT  PROGRAM TO WRITE                             Relabel
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  12   (SCRATCH)                                                    Relabel
                                                                    Relabel
INPUT CARDS                                                         Relabel
----------                                                          Relabel
LINE  COLUMNS  DEFINITION                                           Relabel
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   1   1-72    INPUT PROGRAM FILENAME                               Relabel
                (STANDARD OPTION = RELABEL.IN)                      Relabel
   2   1-72    OUTPUT PROGRAM FILENAME                              Relabel
                (STANDARD OPTION = RELABEL.OUT)                     Relabel
                                                                    Relabel
LEAVE THE DEFINITION OF THE FILENAMES BLANK - THE PROGRAM WILL      Relabel
THEN USE STANDARD FILENAMES.                                        Relabel
                                                                    Relabel
EXAMPLE INPUT NO. 1                                                 Relabel
------------------                                                  Relabel
TO READ \PREPRO94\RECENT\RECENT.FOR AND                            Relabel
WRITE  \PREPRO94\RECENT\RECENT.NEW THE FOLLOWING 2 INPUT LINES     Relabel
ARE REQUIRED,                                                       Relabel
                                                                    Relabel
\PREPRO94\RECENT\RECENT.FOR                                        Relabel
                                                                    Relabel
EXAMPLE INPUT NO. 2                                                 Relabel
------------------                                                  Relabel
TO READ RELABEL.IN AND WRITE RELABEL.OUT THE FOLOWING 2 INPUT       Relabel
LINES ARE REQUIRED,                                                 Relabel
                                                                    Relabel
RELABEL.IN                                                         Relabel
RELABEL.OUT                                                        Relabel
                                                                    Relabel
EXAMPLE INPUT NO. 3                                                 Relabel
------------------                                                  Relabel
TO READ RELABEL.IN AND WRITE RELABEL.OUT, SINCE THESE ARE THE       Relabel
STANDARD OPTIONS THE 2 INPUT LINES CAN BE COMPLETELY BLANK.         Relabel
                                                                    Relabel
====================================================================== Relabel
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