**======================================================================= 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**

**VERS. 2017-1 (May 2017) \*Updated based on user feedback. Relabel**

**VERS. 2018-1 (Jan. 2018) \*On-line output for ALL ENDERROR Relabel**

**VERS. 2019-1 (June 2019) \*Identical to 2018-1 Relabel**

**Relabel**

**OWNED, MAINTAINED AND DISTRIBUTED BY Relabel**

**------------------------------------ Relabel**

**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**

**PRESENT CONTACT INFORMATION Relabel**

**--------------------------- Relabel**

**Dermott E. Cullen Relabel**

**1466 Hudson Way Relabel**

**Livermore, CA 94550 Relabel**

**U.S.A. Relabel**

**Telephone 925-443-1911 Relabel**

**E. Mail RedCullen1@Comcast.net Relabel**

**Website RedCullen1.net/HOMEPAGE.NEW 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**

**12 (SCRATCH) Relabel**

**Relabel**

**INPUT CARDS Relabel**

**----------- Relabel**

**LINE COLUMNS DEFINITION Relabel**

**---- ------- ---------- Relabel**

**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**