				Relabe
PROGRAM	RELAT	ART.		Relabe
========				Relabe
		(APRIL 1969)		Relabe
		(JUNE 1973)		Relabe
		(SEPTEMBER 197	77)	Relabe
		(AUGUST 1980)		Relabe
			COMBINED STATEMENT NUMBER SEQUENCE	Relabe
VEROION (	05 1	(011101111 1905)	AND LINE I.D. INTO ONE PROGRAM.	Relabe
VERSION	86-1	(JANUARY 1986)	FORTRAN-77/H VERSION	Relabe
			*OPTIONINTERNALLY DEFINE ALL I/O	Relabe
	00 1	(0011 1900)	FILE NAMES (SEE, SUBROUTINES FILIO)	Relabe
			AND FILIO2 FOR DETAILS).	Relabe
			*IMPROVED BASED ON USER COMMENTS.	Relabe
VERSTON	89-1	(JANUARY 1989)	*PSYCHOANALYZED BY PROGRAM FREUD TO	Relabe
1210201		(012:012:02 2000)	INSURE PROGRAM WILL NOT DO ANYTHING	Relabe
			CRAZY.	Relabe
			*UPDATED TO USE NEW PROGRAM CONVERT	Relabe
			KEYWORDS.	Relabe
			*ADDED LIVERMORE CIVIC COMPILER	Relabe
			CONVENTIONS.	Relabe
VERSTON	92-1	(JANUARY 1992)	*ADDED FORTRAN SAVE OPTION	Relabe
		• •	*COMPLETE RE-WRITE	Relabe
		• •	*OUTPUT MINIMUM NON-BLANK LENGTH FOR	Relabe
			EACH LINE - NO SEQUENCE NUMBERS.	Relabe
			*INCREASED MAXIMUM NUMBER OF LABELS	Relabe
			PER ROUTINE FROM 1000 TO 50,000	Relabe
			*CAN NOW PROCESS UPPER OR LOWER CASE	Relabe
			CODING.	Relabe
			*SKIP IMBEDDED BLANKS IN KEYWORDS.	Relabe
			*ADDED WRITE (XX, XX, ERR=YYY, END=ZZZ)	Relabe
			*ADDED OPEN (XX, ERR=YYY, END=ZZZ)	Relabe
			*ADDED CLOSE (XX, ERR=YYY, END=ZZZ)	Relabe
			*INTEGER INSTEAD OF CHARACTERS IS NO	Relabe
			LONGER SUPPORTED - ALL CHARACTERS	Relabe
			MUST BE IDENTIFIED AS CHARACTERS.	Relabe
			*VARIABLE FILENAMES TO ALLOW ACCESS	Relabe
			FILE STRUCTURES	Relabe
			(WARNING - INPUT PARAMETER FORMAT	Relabe
			HAS BEEN CHANGED)	Relabe
			*CLOSE ALL FILES BEFORE TERMINATING	Relabe
			(SEE, SUBROUTINE ENDIT)	Relabe
VERSION	96-1	(JANUARY 1996)	*COMPLETE RE-WRITE	Relabe
			*IMPROVED COMPUTER INDEPENDENCE	Relabe
			*ALL DOUBLE PRECISION	Relabe
			*ON SCREEN OUTPUT	Relabe
			*IMPROVED OUTPUT PRECISION	
				Relabe
			*DEFINED SCRATCH FILE NAMES	
				Relabe
			*DEFINED SCRATCH FILE NAMES	Relabe Relabe
VERSION	99-1	(MARCH 1999)	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS	Relabe Relabe Relabe
VERSION	99-1	(MARCH 1999)	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000	Relabe Relabe Relabe Relabe
			*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON	Relabe Relabe Relabe Relabe Relabe
			*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK	Relabe Relabe Relabe Relabe Relabe
			*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK )*UPDATED TO IGNORE ( AND ) IN QUOTES	Relabe Relabe Relabe Relabe Relabe Relabe
VERS. 20	00-1		*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK )*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON	Relabe Relabe Relabe Relabe Relabe Relabe
VERS. 20	00-1	(FEBRUARY 2000	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK )*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK	Relabe Relabe Relabe Relabe Relabe Relabe Relabe Relabe Relabe
VERS. 20	00-1	(FEBRUARY 2000	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS	Relabe Relabe Relabe Relabe Relabe Relabe Relabe
VERS. 20 VERS. 20	000-1 002-1	(FEBRUARY 2000	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT	Relabe Relabe Relabe Relabe Relabe Relabe Relabe Relabe
VERS. 20 VERS. 20	000-1 002-1	(FEBRUARY 2000 (MAY 2002)	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba
VERS. 20 VERS. 20	000-1 002-1	(FEBRUARY 2000 (MAY 2002)	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON	Relabe Relabe Relabe Relabe Relabe Relabe Relabe Relabe
VERS. 20 VERS. 20 VERS. 20	)00-1 )02-1 )04-1	(FEBRUARY 2000 (MAY 2002)	*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba
VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 007-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004) (DEC. 2007)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK ))*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000</pre>	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 007-1 010-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004) (DEC. 2007) (Apr. 2010)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK ))*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000 *72 CHARACTER FILE NAMES.</pre>	Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo
VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 007-1 010-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004) (DEC. 2007) (Apr. 2010)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK )*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000 *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME</pre>	Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo Relabo
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 007-1 010-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004) (DEC. 2007) (Apr. 2010)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK )*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000 *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit COMPATIBLE</pre>	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 007-1 010-1 012-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004) (DEC. 2007) (Apr. 2010) (Aug. 2012)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK ))*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000 *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit COMPATIBLE *Added ERROR stop</pre>	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 007-1 010-1 012-1 015-1	(FEBRUARY 2000 (MAY 2002) (MARCH 2004) (DEC. 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK 0)*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000 *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit COMPATIBLE *Added ERROR stop *Replaced ALL 3 way IF Statements.</pre>	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba
VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20 VERS. 20	000-1 002-1 004-1 010-1 010-1 012-1 015-1 017-1	(FEBRUARY 2000) (MAY 2002) (MARCH 2004) (DEC. 2007) (Apr. 2010) (Aug. 2012) (Jan. 2015) (May 2017)	<pre>*DEFINED SCRATCH FILE NAMES *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 5,000 TO 50,000 *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK ))*UPDATED TO IGNORE ( AND ) IN QUOTES *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK *OPTIONAL INPUT PARAMETERS *CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED *ADDED INCLUDE FOR COMMON *INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000 *72 CHARACTER FILE NAMES. *General update based on user feedback *Added CODENAME *32 and 64 bit COMPATIBLE *Added ERROR stop</pre>	Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba Relaba

===

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 Wav Relabel Livermore, CA 94550 Relabel Relabel U.S.A. 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 RELABEL.INP INPUT PARAMETERS 2 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				
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 THEN USE STANDARD FILENAMES.					
EXAMPLE INPUT NO. 1					
TO READ \PREPRO94\RECENT\RECENT.FOR AND					
WRITE \PREPRO94\RECENT\RECENT.NEW THE FOLLOWING 2 INPUT LINES					
ARE REQUIRED,					
	Relabel				
\PREPRO94\RECENT\RECENT.FOR					
	Relabel				
EXAMPLE INPUT NO. 2					
	Relabel				
TO READ RELABEL. IN AND WRITE RELABEL. OUT THE FOLOWING 2 INPU	T Relabel				
LINES ARE REQUIRED,					
	Relabel				
RELABEL.IN					
RELABEL.OUT					
	Relabel				
EXAMPLE INPUT NO. 3					
	Relabel				
TO READ RELABEL. IN AND WRITE RELABEL. OUT, SINCE THESE ARE TH	E Relabel				
STANDARD OPTIONS THE 2 INPUT LINES CAN BE COMPLETELY BLANK.					
	Relabel				
	====== Relabel				