**=======================================================================CONVERT**

 **CONVERT**

 **PROGRAM CONVERT CONVERT**

 **=============== CONVERT**

 **VERSION 75-1 (APRIL 1975) CONVERT**

 **VERSION 78-1 (JANUARY 1978) CONVERT**

 **VERSION 80-1 (AUGUST 1980) IBM VERSION CONVERT**

 **VERSION 80-2 (DECEMBER 1980) CONVERT**

 **VERSION 82-1 (JANUARY 1982) CONVERT**

 **VERSION 83-1 (JANUARY 1983) CONVERT**

 **VERSION 86-1 (JANUARY 1986)\*NEW PROGRAM CONVERT**

 **\*FORTRAN-77/H VERSION CONVERT**

 **\*MULTIPLE INPUT OPTIONS CONVERT**

 **VERSION 88-1 (AUGUST 1988) \*OPTION...INTERNALLY DEFINE ALL I/O CONVERT**

 **FILE NAMES (SEE, SUBROUTINE FILEIO CONVERT**

 **FOR DETAILS). CONVERT**

 **\*IMPROVED BASED ON USER COMMENTS. CONVERT**

 **\*ADDED NAMES OPTION TO TURN ON/OFF CONVERT**

 **STANDARD FILE NAMES. CONVERT**

 **\*ADDED REWIND OPTION TO TURN ON/OFF CONVERT**

 **REWIND AT START OF PROGRAMS. CONVERT**

 **\*DELETED HARWELL AND JAERI OPTIONS CONVERT**

 **(PREVIOUSLY ONLY REQUIRED FOR GRAPHIC CONVERT**

 **INTERFACE. NO LONGER REQUIRED). CONVERT**

 **VERSION 89-1 (JANUARY 1989)\*PSYCHOANALYZED BY PROGRAM FREUD TO CONVERT**

 **INSURE PROGRAM WILL NOT DO ANYTHING CONVERT**

 **CRAZY. CONVERT**

 **\*IMPROVED BASED ON USER COMMENTS. CONVERT**

 **\*ADDED LIVERMORE CIVIC COMPILER CONVERT**

 **CONVENTIONS. CONVERT**

 **\*UPDATED TO USE NEW PROGRAM CONVERT CONVERT**

 **KEYWORDS. CONVERT**

 **\*ADDED ENDFILE OPTION TO OPTIONALLY CONVERT**

 **ALLOW END OF FILE TO BE WRITTEN CONVERT**

 **VERSION 91-1 (JUNE 1991) \*ADDED FORTRAN SAVE OPTION CONVERT**

 **VERSION 92-1 (JANUARY 1992)\*ADDED ACTION OPTION - TO CONTROL CONVERT**

 **INTERACTIVE INPUT TO CODES CONVERT**

 **\*ADDED BLANK DELIMITED KEYWORD INPUT CONVERT**

 **(REPLACES EARLIER FIXED FIELD INPUT) CONVERT**

 **\*WARNING...THE INPUT PARAMETER FORMAT CONVERT**

 **HAS BEEN GENERALIZED - FOR DETAILS CONVERT**

 **SEE BELOW. CONVERT**

 **VERSION 94-1 (JANUARY 1994)\*VARIABLE PROGRAM FILENAMES CONVERT**

 **TO ALLOW ACCESS TO FILE STRUCTURES CONVERT**

 **(WARNING - INPUT PARAMETER FORMAT CONVERT**

 **HAS BEEN CHANGED) CONVERT**

 **\*CLOSE ALL FILES BEFORE TERMINATING CONVERT**

 **(SEE, SUBROUTINE ENDIT) CONVERT**

 **\*ADDED KEYWORD CLOSE. CONVERT**

 **VERSION 96-1 (JANUARY 1996) \*COMPLETE RE-WRITE CONVERT**

 **\*IMPROVED COMPUTER INDEPENDENCE CONVERT**

 **\*ALL DOUBLE PRECISION CONVERT**

 **\*ON SCREEN OUTPUT CONVERT**

 **VERSION 99-1 (MARCH 1999) \*GENERAL IMPROVEMENTS BASED ON CONVERT**

 **USER FEEDBACK CONVERT**

 **VERS. 2000-1 (FEBRUARY 2000)\*GENERAL IMPROVEMENTS BASED ON CONVERT**

 **USER FEEDBACK CONVERT**

 **VERS. 2002-1 (MAY 2002) \*OPTIONAL INPUT PARAMETERS CONVERT**

 **VERS. 2004-1 (MARCH 2004) \*GENERAL UPDATE CONVERT**

 **VERS. 2007-1 (JAN. 2007) \*GENERAL UPDATE CONVERT**

 **VERS. 2007-2 (DEC. 2007) \*72 CHARACTER FILE NAMES. CONVERT**

 **VERS. 2010-1 (Apr. 2010) \*General update based on user feedbackCONVERT**

 **VERS. 2012-1 (Aug. 2012) \*Added CODENAME CONVERT**

 **\*32 and 64 bit Compatible CONVERT**

 **\*Added ERROR stop CONVERT**

 **VERS. 2015-1 (Jan. 2015) \*Replaced ALL 3 way IF Statements CONVERT**

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

 **VERS. 2018-1 (Jan. 2018) \*Added on-line output for ALL ENDERRORCONVERT**

 **VERS. 2020-1 (Feb. 2020) \*Identical to 2018-1. CONVERT**

 **VERS. 2021-1 (Jan 2021) \*Updated for FORTRAN 2018 CONVERT**

 **VERS. 2023-1 (Feb. 2023) \*Identical to 2021-1 CONVERT**

 **CONVERT**

 **OWNED, MAINTAINED AND DISTRIBUTED BY CONVERT**

 **------------------------------------ CONVERT**

 **THE NUCLEAR DATA SECTION CONVERT**

 **INTERNATIONAL ATOMIC ENERGY AGENCY CONVERT**

 **P.O. BOX 100 CONVERT**

 **A-1400, VIENNA, AUSTRIA CONVERT**

 **EUROPE CONVERT**

 **CONVERT**

 **ORIGINALLY WRITTEN BY CONVERT**

 **------------------------------------ CONVERT**

 **Dermott E. Cullen CONVERT**

 **CONVERT**

 **PRESENT CONTACT INFORMATION CONVERT**

 **--------------------------- CONVERT**

 **Dermott E. Cullen CONVERT**

 **1466 Hudson Way CONVERT**

 **Livermore, CA 94550 CONVERT**

 **U.S.A. CONVERT**

 **Telephone 925-443-1911 CONVERT**

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

 **Website RedCullen1.net/HOMEPAGE.NOW CONVERT**

 **CONVERT**

 **AUTHORS MESSAGE CONVERT**

 **--------------- CONVERT**

 **THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENATION CONVERT**

 **FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ CONVERT**

 **ALL OF THESE COMMENTS BEFORE IMPLEMENTATION, PARTICULARLY THE CONVERT**

 **COMMENTS CONCERNING COMPUTER DEPENDENT CODING. CONVERT**

 **CONVERT**

 **AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTERCONVERT**

 **INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE CONVERT**

 **OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECTCONVERT**

 **IT WOULD BE APPECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY CONVERT**

 **COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO CONVERT**

 **IMPROVE THIS PROGRAM. IN PARTICULAR IF YOUR FORTRAN COMPILER, OR CONVERT**

 **COMPUTER HAS A SET OF REQUIREMENTS THAT ARE DIFFERENT FROM THOSE CONVERT**

 **OF CDC, CRAY OR IBM PLEASE NOTIFY THE AUTHOR AND THIS PROGRAM WILLCONVERT**

 **BE MODIFIED TO CONSIDER YOUR COMPUTER SEPERATELY. HOWEVER, IN CONVERT**

 **ORDER TO PREVENT A PROLIFERATION OF CODING IT IS IMPERATIVE THAT CONVERT**

 **YOU IDENTIFY EXACTLY HOW YOUR FORTRAN COMPILER OR COMPUTER DIFFERSCONVERT**

 **FROM THOSE ALREADY CONSIDERED BY THIS PROGRAM. HOPEFULLY,IN THIS CONVERT**

 **WAY FUTURE VERSIONS OF THIS PROGRAM WILL BE COMPLETELY COMPATIBLE CONVERT**

 **FOR USE ON YOUR COMPUTER. CONVERT**

 **CONVERT**

 **PURPOSE CONVERT**

 **------- CONVERT**

 **THIS PROGRAM IS DESIGNED TO AUTOMATICALLY CONVERT FORTRAN PROGRAMSCONVERT**

 **FOR USE ON ANY ONE OF A VARIETY OF, CONVERT**

 **(1) COMPUTERS CONVERT**

 **(2) COMPILERS CONVERT**

 **(3) PRECISIONS (SINGLE OR DOUBLE PRECISION) CONVERT**

 **(4) INSTALLATIONS CONVERT**

 **(5) STANDARD OR NON-STANDARD FILE NAMES CONVERT**

 **CONVERT**

 **FORTRAN CODING CONVENTIONS CONVERT**

 **-------------------------- CONVERT**

 **THIS PROGRAM MAY BE USED TO CONVERT ANY PROGRAM WHICH USES THE CONVERT**

 **FOLLOWING CONVENTIONS. CONVERT**

 **CONVERT**

 **ALL FORTRAN STATEMENTS THAT DEPEND ON ANY COMBINATION OF COMPUTER,CONVERT**

 **COMPILER, PRECISION AND/OR INSTALLATION AND STANDARD FILE NAMES CONVERT**

 **SHOULD BE PRECEDED AND FOLLOWED BY A COMMENT LINE THAT CONTAINS, CONVERT**

 **CONVERT**

 **C\*\*\*\*\* DOUBLE \*\*\*\*\*\* ACTIVATE DOUBLE PRECISION (DEFAULT) CONVERT**

 **C\*\*\*\*\* SINGLE \*\*\*\*\*\* ACTIVATE SINGLE PRECISION CONVERT**

 **C\*\*\*\*\* CHARACTER \*\*\* TREAT CHARACTER ARRAYS AS CHARACTERS(DEFAULT)CONVERT**

 **C\*\*\*\*\* INTEGER \*\*\*\*\* TREAT CHARACTER ARRAYS AS INTEGERS CONVERT**

 **C\*\*\*\*\* STOP \*\*\*\*\*\*\*\* ACTIVATE STOP TO TERMINATE PROGRAM CONVERT**

 **C\*\*\*\*\* EXIT \*\*\*\*\*\*\*\* ACTIVATE EXIT TO TERMINATE PROGRAM CONVERT**

 **C\*\*\*\*\* PROGRAM \*\*\*\*\* ACTIVATE PROGRAM LINE AND CONTINUATIONS CONVERT**

 **C\*\*\*\*\* NAMES \*\*\*\*\*\*\* ACTIVATE STANDARD FILENAMES CONVERT**

 **C\*\*\*\*\* REWIND \*\*\*\*\*\* ACTIVATE REWIND FILES AT START OF PROGRAM CONVERT**

 **C\*\*\*\*\* ENDFILE \*\*\*\*\* ACTIVATE ENDFILE AT END OF PROGRAM CONVERT**

 **C\*\*\*\*\* CIVIC \*\*\*\*\*\*\* ACTIVATE LIVERMORE CIVIC COMPILER CONVENTIONSCONVERT**

 **C\*\*\*\*\* NOID \*\*\*\*\*\*\*\* REMOVE LINE ID IN COLUMNS 73-80 (73-80=BLANK)CONVERT**

 **C\*\*\*\*\* SAVE \*\*\*\*\*\*\*\* SAVE VARIABLES BETWEEN SUBROUTINE CALLS CONVERT**

 **C\*\*\*\*\* ACTION \*\*\*\*\*\* ACTIVATE INTERACTIVE INPUT TO CODES CONVERT**

 **C\*\*\*\*\* CLOSE \*\*\*\*\*\*\* ACTIVATE CLOSE ALL FILES BEFORE TERMINATING CONVERT**

 **CONVERT**

 **IF THE USER DOES NOT SELECT, CONVERT**

 **(1) DOUBLE OR SINGLE - THE PROGRAM WILL ACTIVATE DOUBLE CONVERT**

 **(2) CHARACTER OR INTEGER - THE PROGRAM WILL ACTIVATE CHARACTER CONVERT**

 **(3) STOP OR EXIT - THE PROGRAM WILL ACTIVATE STOP CONVERT**

 **CONVERT**

 **IF THE USER SELECTS, CONVERT**

 **(1) DOUBLE AND SINGLE - THE PROGRAM WILL ACTIVATE DOUBLE CONVERT**

 **(2) CHARACTER AND INTEGER - THE PROGRAM WILL ACTIVATE CHARACTER CONVERT**

 **(3) STOP AND EXIT - THE PROGRAM WILL ACTIVATE STOP CONVERT**

 **CONVERT**

 **IF THE USER DOES NOT SELECT PROGRAM, NAMES, REWIND, ENDFILE, CONVERT**

 **CIVIC, NOID, SAVE OR ACTION THESE OPTIONS WILL BE TURNED OFF. CONVERT**

 **CONVERT**

 **WHERE CODING IS COMPUTER OR COMPILER DEPENDENT CODING WILL BE CONVERT**

 **PRESENT FOR ALL POSSIBLE OPTIONS. THIS PROGRAM WILL ALLOW THE CONVERT**

 **THE USER TO CONVERT PROGRAMS FOR USE WITH ANY COMBINATION OF CONVERT**

 **OPTIONS. FOR EXAMPLES OF HOW THIS CONVENTION IS USED SEE THE CONVERT**

 **LISTING OF THIS PROGRAM AND THE COMMENTS BELOW ON COMPUTER CONVERT**

 **DEPENDENT CODING. CONVERT**

 **CONVERT**

 **INPUT LINES CONVERT**

 **----------- CONVERT**

 **LINE COLS. DESCRIPTION CONVERT**

 **---- ----- -------------------------------------- CONVERT**

 **1 1-72 BLANK DELIMITED KEYWORDS CONVERT**

 **2 1-60 ENDF/B INPUT DATA FILENAME CONVERT**

 **(STANDARD OPTION = ENDFB.IN) CONVERT**

 **3 1-60 ENDF/B OUTPUT DATA FILENAME CONVERT**

 **(STANDARD OPTION = ENDFB.OUT) CONVERT**

 **CONVERT**

 **\*THE FIRST INPUT LINE IS 72 CHARACTERS. CONVERT**

 **\*KEYWORDS MAY BE LOCATED ANYWHERE WITHIN THESE 72 CHARACTERS CONVERT**

 **\*THERE MAY BE ANY NUMBER OF KEYWORDS INPUT CONVERT**

 **\*EACH KEYWORD MUST BE BLANK DELIMITED, E.G., DOUBLE CHARACTER CONVERT**

 **IS LEGAL INPUT - DOUBLECHARACTER IS NOT LEGAL INPUT. CONVERT**

 **\*THERE MUST BE ONE OR MORE BLANKS BETWEEN KEYWORDS CONVERT**

 **CONVERT**

 **\*NOTE, THIS NEW INPUT PARAMETER FORMAT (VERSION 92-1) IS COMPLETELYCONVERT**

 **COMPATIBLE WITH THE OLDER FIXED FIELD FORMAT. SO THAT IF YOU HAVE CONVERT**

 **INPUT THAT YOU HAVE USED IN THE PAST YOU CAN CONTINUE TO USE IT. CONVERT**

 **CONVERT**

 **LEGAL KEYWORDS INCLUDE, CONVERT**

 **CONVERT**

 **DOUBLE ACTIVATE DOUBLE PRECISION (DEFAULT) CONVERT**

 **SINGLE ACTIVATE SINGLE PRECISION CONVERT**

 **CHARACTER TREAT CHARACTER ARRAYS AS CHARACTERS(DEFAULT) CONVERT**

 **INTEGER TREAT CHARACTER ARRAYS AS INTEGERS CONVERT**

 **PROGRAM ACTIVATE PROGRAM LINE AND CONTINUATIONS CONVERT**

 **NAMES ACTIVATE STANDARD FILENAMES CONVERT**

 **REWIND ACTIVATE REWIND FILES AT START OF PROGRAM CONVERT**

 **ENDFILE ACTIVATE ENDFILE AT END OF PROGRAM CONVERT**

 **CIVIC ACTIVATE LIVERMORE CIVIC COMPILER CONVENTIONS CONVERT**

 **NOID REMOVE LINE ID IN COLUMNS 73-80 (73-80=BLANK) CONVERT**

 **SAVE SAVE VARIABLES BETWEEN SUBROUTINE CALLS CONVERT**

 **ACTION ACTIVATE INTERACTIVE INPUT FOR CODES CONVERT**

 **CLOSE ACTIVATE CLOSE ALL FILES BEFORE TERMINATING CONVERT**

 **CONVERT**

 **EXAMPLE INPUT NO. 1 CONVERT**

 **------------------- CONVERT**

 **TO USE A PROGRAM IN SINGLE PRECISION, USE THE STANDARD FILE NAMES,CONVERT**

 **REWIND ALL UNITS AT THE START OF THE PROGRAM AND TREAT CHARACTER CONVERT**

 **ARRAYS AS CHARACTER (FORTRAN-77 CONVENTION). CONVERT**

 **CONVERT**

 **READ \PREPRO93\RECENT\RECENT.OLD AND CONVERT**

 **WRITE \PREPRO93\RECENT\RECENT.NEW CONVERT**

 **CONVERT**

 **THE FOLLOWING 3 INPUT LINES ARE REQUIRED, CONVERT**

 **CONVERT**

 **SINGLE NAMES REWIND CHARACTER CONVERT**

 **\PREPRO93\RECENT\RECENT.OLD CONVERT**

 **\PREPRO93\RECENT\RECENT.NEW CONVERT**

 **CONVERT**

 **NOTE, SINCE CHARACTER IS THE STANDARD OPTION THE KEYWORD CHARACTERCONVERT**

 **NEED NOT APPEAR ON THE ABOVE INPUT LINE. CONVERT**

 **CONVERT**

 **EXAMPLE INPUT NO. 2 CONVERT**

 **------------------- CONVERT**

 **TO USE A PROGRAM IN DOUBLE PRECISION AND TREAT ALL CHARACTER CONVERT**

 **ARRAYS AS INTEGER (FORTRAN-H CONVENTION). CONVERT**

 **CONVERT**

 **USE THE STANDARD FILENAMES TO READ = CONVERT.IN AND WRITE = CONVERT**

 **CONVERT.OUT (THIS CAN BE DONE BY LEAVING THE SECOND AND THIRD CONVERT**

 **INPUT LINES BLANK). CONVERT**

 **CONVERT**

 **THE FOLLOWING 3 INPUT LINES ARE REQUIRED, CONVERT**

 **CONVERT**

 **DOUBLE INTEGER CONVERT**

 **(NOTE, THIS IS A BLANK LINE) CONVERT**

 **(NOTE, THIS IS A BLANK LINE) CONVERT**

 **CONVERT**

 **NOTE, SINCE DOUBLE IS THE STANDARD OPTION THE KEYWORD DOUBLE CONVERT**

 **NEED NOT APPEAR ON THE ABOVE INPUT LINE. CONVERT**

 **CONVERT**

 **EXAMPLE INPUT NO. 3 CONVERT**

 **------------------- CONVERT**

 **TO ACTIVATE THE PROGRAM LINE, USE DOUBLE PRECISION AND TREAT ALL CONVERT**

 **CHARACTER ARRAYS AS CHARACTER. CONVERT**

 **CONVERT**

 **CONVERT**

 **READ \PREPRO93\RECENT\RECENT.OLD AND CONVERT**

 **WRITE THE STANDARD FILENAME = CONVERT.OUT (LEAVE THE THIRD INPUT CONVERT**

 **LINE BLANK). CONVERT**

 **CONVERT**

 **THE FOLLOWING 3 INPUT LINES ARE REQUIRED, CONVERT**

 **CONVERT**

 **PROGRAM CONVERT**

 **\PREPRO93\RECENT\RECENT.OLD CONVERT**

 **(NOTE, THIS IS A BLANK LINE) CONVERT**

 **CONVERT**

 **NOTE, SINCE DOUBLE, CHARACTER AND EXIT ARE THE STANDARD OPTIONS CONVERT**

 **THEY NEED NOT APPEAR ON THE ABOVE INPUT LINE AND IN THIS EXAMPLE CONVERT**

 **HAVE BEEN OMITTED. CONVERT**

 **CONVERT**

 **WARNING CONVERT**

 **------- CONVERT**

 **(1) THE PROGRAM WILL ALWAYS ACTIVATE DOUBLE OR SINGLE, CHARACTER CONVERT**

 **OR INTEGER (AS DESCRIBED ABOVE). CONVERT**

 **CONVERT**

 **(2) CODING IN THE PROGRAM FOR ANY KEYWORDS THAT ARE NOT ACTIVATED CONVERT**

 **WILL BE CONVERTED TO COMMENT LINES AND AS SUCH WILL EFFECTIVELY CONVERT**

 **DISAPPEAR FROM THE PROGRAM. THEREFORE IF THE KEYWORDS PROGRAM, CONVERT**

 **NAMES, REWIND, ENDFILE, CIVIC OR NOID ARE NOT INPUT BY THE USER CONVERT**

 **THESE OPTIONS WILL BE TURNED OFF AND ANY CODING USING THESE CONVERT**

 **KEYWORDS WILL EFFECTIVELY DISAPPEAR FROM THE PROGRAM. CONVERT**

 **CONVERT**

 **(3) THE SERIES OF CODES THAT ARE DESIGNED TO BE AUTOMATICALLY CONVERT**

 **TRANSLATED BY THIS PROGRAM REQUIRE THAT ALL CALCULATIONS BE CONVERT**

 **PERFORMED IN DOUBLE PRECISION ON SHORT WORD LENGTH COMPUTERS CONVERT**

 **(E.G., IBM COMPUTERS). THIS PROGRAM WILL ALLOW YOU TO SPECIFY CONVERT**

 **EITHER DOUBLE OR SINGLE PRECISION. HOWEVER, IF YOU SPECIFY CONVERT**

 **SINGLE PRECISION THIS PROGRAM WILL PRINT A WARNING MESSAGE THAT CONVERT**

 **THE CONVERTED PROGRAM SHOULD ONLY BE USED ON LONG WORD LENGTH CONVERT**

 **COMPUTERS (E.G., CDC COMPUTERS). CONVERT**

 **CONVERT**

 **PROGRAM OPERATION CONVERT**

 **----------------- CONVERT**

 **THE PROGRAM WILL SEARCH FOR COMMENT LINES THAT START WITH C\*\* CONVERT**

 **IN COLUMNS 1-3 FOLLOWED BY ANY ONE OF THE ALLOWED KEYWORDS CONVERT**

 **IF THE KEYWORD IS THE SAME AS ONE OF THE KEYWORDS INPUT BY CONVERT**

 **THE USER ALL LINES UP TO THE NEXT LINE WITH C\*\* IN COLUMNS 1-3 CONVERT**

 **FOLLOWED BY THE SAME KEYWORD WILL BE SET ACTIVE BY SETTING COLUMN CONVERT**

 **1 TO BLANK. IF THE KEYWORDS DIFFERS FROM THAT INPUT BY THE USER CONVERT**

 **ALL LINES UP TO THE NEXT LINE WITH C\*\* IN COLUMNS 1-3 FOLLOWED BY CONVERT**

 **THE SAME KEYWORD WILL BE SET INACTIVE BY SETTING COLUMN 1 TO C. CONVERT**

 **CONVERT**

 **KEYWORDS MAY NOT BE NESTED (I.E., THIS PROGRAM WILL ONLY OPERATE CONVERT**

 **PROPERLY IF KEYWORDS APPEAR IN PAIRS. ONCE A LINE IS FOUND THAT CONVERT**

 **CONTAINS A KEYWORD, THE NEXT LINE THAT CONTAINS A KEYWORD MUST CONVERT**

 **CONTAIN THE SAME KEYWORD). CONVERT**

 **CONVERT**

 **PROGRAM LINE CONVERT**

 **------------ CONVERT**

 **THE FORTRAN FILE MAY START WITH A PROGRAM LINE AND CONTINUATIONS. CONVERT**

 **FOR USE ON CDC-7600 OR CRAY-1 COMPUTERS THIS PROGRAM CAN ACTIVATE CONVERT**

 **THE PROGRAM LINE AND CONTINUATION LINES. FOR USE ON OTHER TYPES OFCONVERT**

 **COMPUTERS THIS PROGRAM WILL AUTOMATICALLY DE-ACTIVATE THE PROGRAM CONVERT**

 **LINE AND CONTINUATION LINES. THIS CONVENTIONS HAS BEEN INTRODUCED CONVERT**

 **BECAUSE SOME CDC-7600 COMPILERS CONSIDER IT AN ERROR IF THE FIRST CONVERT**

 **LINE IS NOT A PROGRAM LINE. PRECEEDING COMMENT LINES ARE NOT CONVERT**

 **ALLOWED. THEREFORE THE NORMAL CONVENTION, DESCRIBED ABOVE, OF CONVERT**

 **USING PRECEDING AND FOLLOWING COMMENT LINES, CANNOT BE USED AT CONVERT**

 **THE BEGINNING OF THE PROGRAM. CONVERT**

 **CONVERT**

 **COMMENT LINES CONVERT**

 **------------- CONVERT**

 **COMMENT LINES MAY APPEAR ON LINES BETWEEN PAIRS OF KEYWORD LINES CONVERT**

 **ONLY IF THE COMMENT LINES CONTAINS C-- IN COLUMS 1-3. ANY LINE CONVERT**

 **THAT CONTAINS ANYTHING ELSE IN COLUMNS 1-3 MAY BE ACTIVATED CONVERT**

 **BY THIS PROGRAM BY SETTING COLUMN 1 BLANK AND CAN LEAD TO ERRORS CONVERT**

 **DURING COMPILATION AND/OR EXECUTION. CONVERT**

 **CONVERT**

 **INPUT FILES CONVERT**

 **----------- CONVERT**

 **UNIT DESCRIPTION CONVERT**

 **---- ----------- CONVERT**

 **2 INPUT LINE (BCD - 80 CHARACTERS/RECORD) CONVERT**

 **10 ORIGINAL PROGRAM (BCD - 80 CHARACTERS/RECORD) CONVERT**

 **CONVERT**

 **OUTPUT FILES CONVERT**

 **------------ CONVERT**

 **UNIT DESCRIPTION CONVERT**

 **---- ----------- CONVERT**

 **3 OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD) CONVERT**

 **11 RE-FORMATTED PROGRAM (BCD - 80 CHARACTERS/RECORD) CONVERT**

 **CONVERT**

 **OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2) CONVERT**

 **--------------------------------------------------------------- CONVERT**

 **UNIT FILE NAME CONVERT**

 **---- ---------- CONVERT**

 **2 CONVERT.INP CONVERT**

 **3 CONVERT.LST CONVERT**

 **10 CONVERT.IN CONVERT**

 **11 CONVERT.OUT CONVERT**

 **CONVERT**

 **=======================================================================CONVERT**