	Endf2c Endf2c
Program ENDF2C	Endf2c
	Endf2c
Convert ENDF Data to Standard FORTRAN, C and C++ Format.	Endf2c
	Endf2c
Version 2014-1 Feb. 2014 * Initial version.	Endf2c
2014-2 Oct. 2014 * Changed from D to E exponential form to improve compatibility between	Endf2c Endf2c
computer languages.	Endf2c
2015-1 Jan. 2015 * General updates for release with	Endf2c
PREPRO2015.	Endf2c
* Changed ENDF data filenames from ENDF2C	
to ENDFB, to agree with PREPRO default	Endf2c
definitions. * Added code name (to be compatible	Endf2c Endf2c
with PREPRO output), but NOT TIME (to	Endf2c
keep this code as computer independent	Endf2c
as possible).	Endf2c
2017-1 May 2017 * Updated based on user feedbsck	Endf2c
2018-1 Jan. 2018 * Added on-line output for ALL ENDERROR	Endf2c
2019-1 June 2019 * Added /UNITS/ to allow correct output	Endf2c
at end = output either o.k. or error.	Endf2c Endf2c
Purpose	Endf2c
-	Endf2c
This code is designed for,	Endf2c
 ENDF Data in any ENDF format = ENDF-1 through ENDF-6. 	Endf2c
2) On any type of computer = 32 or 64 bit system/compiler	Endf2c
This and tring to keep things as simple as pessible	Endf2c Endf2c
This code tries to keep things as simple as possible 1) There are NO INPUT PARAMETERS.	Endf2c
2) It reads an ENDF formatted file named ENDFB.IN	Endf2c
3) It writes an ENDF formatted file named ENDFB.OUT	Endf2c
4) It writes a report file named ENDF2C.LST	Endf2c
Teller te Maran	Endf2c
Author's Message	Endf2c Endf2c
I consider insuring that ENDF data is in a standard, officially	Endf2c
approved format for FORTRAN, C and C++ is SO IMPORTANT this code	Endf2c
does only one thing - and only one thing - and it does it in the	Endf2c
simplest possible manner - efficiency is NOT a consideration -	Endf2c
ONLY accuracy and general utility of the ENDF data is considered.	Endf2c Endf2c
Method	Endf2c Endf2c
	Endf2c
Other codes that attempt to do the same thing - including codes	Endf2c
written be me decades ago - are very complicated, and therefore	Endf2c
ERROR PRONE because they try to deal with each and every variant	Endf2c
in which data can be coded in the ENDF format. Needless to say	Endf2c Endf2c
this means that every time the ENDF formats and procedures change these codes MUSE also be changed.	Endf2c
ancoe couch mobil albo be changed.	Endf2c
In contrast, ENDF2C uses my almost 50 years of experience dealing	Endf2c
with the ENDF format to realize that except for the comments at	Endf2c
the beginning for each evaluation (MF/MT=1/451), every line of	Endf2c
ENDF data is IDENTICAL - in every version of the ENDF format, from	
the original ENDF to today's ENDF-6. So to translate ENDF data into an official format I do not have to consider differences in	Endf2c Endf2c
each section (MF/MT) of data.	Endf2c
	Endf2c
Every line of ENDF is divided into 6 fields, each 11 columns wide.	
Tesh of the C. Cielde is either block interest of Cleating aciet	Endf2c
	Endf2c
Floating point fields ALL include a decimal point (.). So that ALL	
Floating point fields ALL include a decimal point (.). So that ALL this code does is convert every floating point field to standard	Endf2c
	Endf2c Endf2c
format.	Endf2c Endf2c Endf2c
Floating point fields ALL include a decimal point (.). So that ALL this code does is convert every floating point field to standard	Endf2c Endf2c
Floating point fields ALL include a decimal point (.). So that ALL this code does is convert every floating point field to standard format. In order to insure that this PRESERVES the accuracy of the data	Endf2c Endf2c Endf2c Endf2c
Floating point fields ALL include a decimal point (.). So that ALL this code does is convert every floating point field to standard format. In order to insure that this PRESERVES the accuracy of the data this is done by reading and writing each ENDF line as characters.	Endf2c Endf2c Endf2c Endf2c Endf2c Endf2c

As a last step to insure the accuracy of results the characters to be output are again converted from characters to floating point, and the numerical value that is output is compared to the numerical value originally read, and if there is ANY DIFFERENCE the characters strings read and written are listed in the output: the characters strings read and written as well as the difference is listed in the output report (ENDF2C.LST) and on the screen. Running Time 		to floating point - they are then converted back into characters in a standard, officially approved format, for output.	Endf2c Endf2c
<pre>point, and the numerical value that is output is compared to the numerical value originally read, and if there is ANY DIFFERENCE the characters strings read and written are listed in the output: the characters strings read and written as well as the difference is listed in the output report (ENDF2C.LST) and on the screen. Endf2C Running Time </pre>			
numerical value originally read, and if there is ANY DIFFERENCE Endf2c the characters strings read and written as well as the difference is listed in the output report (ENDF2C.LST) and on the screen. Endf2c Running Time Endf2c Endf2c			
the characters strings read and written as well as the difference Endf2c is listed in the output report (ENDF2C.LST) and on the screen. Endf2c Running Time Endf2c The takes only seconds to translate an ENDF formatted evaluation, Endf2c is orunning time need not be a consideration. Concentrate on Endf2c because the second screen Endf2c Endf2c Documentation Endf2c The takes only seconds to translate an ENDF formatted evaluation, Endf2c Documentation Endf2c The takes only seconds to translate an ENDF formatted evaluation. Endf2c Endf2c Documentation Endf2c The comment section (MF/MT=1/451) of each evaluation. This Endf2c allows data users to determine the pedigree of the data they are Endf2c to f the comment section (MF/MT=1/451) of each evaluation. This Endf2c document what they have done by adding comment lines at the end endf2c by reading these comments. This code documents what is has Endf2c to allows data users to determine the pedigree of the data they are Endf2c to allows data users to determine the predigree of the data they are Endf2c to a statistic table following 2 comment lines. Endf2c to Convert ENDF Data to Standard FORTRAN, C and C++ Format Endf2c WARNING - This documentation is IMPORTANT to data users and it Endf2c thef2c University of California (retired) Endf2c Dermott E. Cullen Endf2c Dermott E. Cullen Endf2c University of California (retired) Endf2c University of California (retired) Endf2c Us.S.A. Endf2c Telephone 925-443-1911 Endf2c Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c			Endf2c
<pre>is listed in the output report (ENDF2C.LST) and on the screen. Endf2c Running Time</pre>		the characters strings read and written are listed in the output:	Endf2c
Running TimeEndf2cNumning TimeEndf2cIt takes only seconds to translate an ENDF formatted evaluation, so running time need not be a consideration. Concentrate on keeping it simple and reliable - that should be your focus.Endf2cDocumentationEndf2cEndf2cALL of my codes that process ENDF data and change it in ANY WAY document what they have done by adding comment lines at the end endf2cEndf2cALL of my codes that process ENDF data and change it in ANY WAY document section (MF/MT=1/451) of each evaluation. This Endf2cEndf2callows data users to determine the pedigree of the data they are using, by reading the following 2 comment lines.Endf2c***********************************		the characters strings read and written as well as the difference	Endf2c
Running Time Endf2c It takes only seconds to translate an ENDF formatted evaluation, so running time need not be a consideration. Concentrate on keeping it simple and reliable - that should be your focus. Endf2c Documentation Endf2c Documentation Endf2c ALL of my codes that process ENDF data and change it in ANY WAY document what they have done by adding comment lines at the end endf2c of the comment section (MF/MT=1/451) of each evaluation. This Endf2c done by adding the following 2 comment lines. Endf2c ************************************		is listed in the output report (ENDF2C.LST) and on the screen.	Endf2c
Interview Endf2c It takes only seconds to translate an ENDF formatted evaluation, so running time need not be a consideration. Concentrate on Endf2c keeping it simple and reliable - that should be your focus. Endf2c Documentation Endf2c Endf2c ALL of my codes that process ENDF data and change it in ANY WAY Endf2c ocument what they have done by adding comment lines at the end Endf2c allows data users to determine the pedigree of the data they are Endf2c using, by reading these comments. This code documents what is has Endf2c convert ENDF Data to Standard FORTRAN, C and C++ Format Endf2c WARNING - This documentation is IMFORTANT to data users and it Endf2c written by Endf2c University of California (retired) Endf2c University of California (retired) Endf2c Uivermore, CA 94550 Endf2c U.S.A. Endf2c Telephone 925-443-1911 Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c			Endf2c
It takes only seconds to translate an ENDF formatted evaluation, so running time need not be a consideration. Concentrate on keeping it simple and reliable - that should be your focus. Endf2c Documentation 		Running Time	Endf2c
so running time need not be a consideration. Concentrate on keeping it simple and reliable - that should be your focus. Endf2c Documentation 			Endf2c
keeping it simple and reliable - that should be your focus. Endf2c Documentation Endf2c ALL of my codes that process ENDF data and change it in ANY WAY Endf2c document what they have done by adding comment lines at the end Endf2c allows data users to determine the pedigree of the data they are Endf2c done by adding the following 2 comment lines. Endf2c ************************************		It takes only seconds to translate an ENDF formatted evaluation,	
Endf2c Documentation 		=	
Documentation Endf2c 		keeping it simple and reliable - that should be your focus.	
ALL of my codes that process ENDF data and change it in ANY WAY Endf2c document what they have done by adding comment lines at the end of the comment section (MF/MT=1/451) of each evaluation. This allows data users to determine the pedigree of the data they are using, by reading these comments. This code documents what is has for by adding the following 2 comment lines. ************************************			
ALL of my codes that process ENDF data and change it in ANY WAY document what they have done by adding comment lines at the end of the comment section (MF/MT=1/451) of each evaluation. This Endf2c allows data users to determine the pedigree of the data they are using, by reading these comments. This code documents what is has done by adding the following 2 comment lines. ************************************			
document what they have done by adding comment lines at the end of the comment section (MF/MT=1/451) of each evaluation. This allows data users to determine the pedigree of the data they are using, by reading these comments. This code documents what is has done by adding the following 2 comment lines. ************************************			
of the comment section (MF/MT=1/451) of each evaluation. This Endf2c allows data users to determine the pedigree of the data they are using, by reading these comments. This code documents what is has done by adding the following 2 comment lines. Endf2c the following 2 comment lines. Endf2c convert ENDF Data to Standard FORTRAN, C and C++ Format Endf2c wARNING - This documentation is IMPORTANT to data users and it Endf2c written by Endf2c written by Endf2c University of California (retired) Endf2c Dermott E. Cullen Endf2c Livermore, CA 94550 Endf2c U.S.A. Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Website RedCullen1.net/HOMEPAGE.NEW			
allows data users to determine the pedigree of the data they are using, by reading these comments. This code documents what is has done by adding the following 2 comment lines. ************************************			
<pre>using, by reading these comments. This code documents what is has Endf2c done by adding the following 2 comment lines. Endf2c ************************************</pre>			
done by adding the following 2 comment lines. Endf2c ************************************			
<pre>Endf2c ************************************</pre>			
<pre>************************************</pre>		done by adding the following 2 comment lines.	
Convert ENDF Data to Standard FORTRAN, C and C++ Format Endf2c WARNING - This documentation is IMPORTANT to data users and it should not be deleted. Written by 			
Endf2cWARNING - This documentation is IMPORTANT to data users and itEndf2cshould not be deleted.Endf2cWritten byEndf2c	****	-	
WARNING - This documentation is IMPORTANT to data users and it Endf2c should not be deleted. Endf2c Written by Endf2c Endf2c Dermott E. Cullen Endf2c University of California (retired) Endf2c Dermott E. Cullen Endf2c Livermore, CA 94550 Endf2c U.S.A. Endf2c E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c		Convert ENDF Data to Standard FORTRAN, C and C++ Format	
should not be deleted.Endf2cWritten byEndf2cWritten byEndf2cDermott E. CullenEndf2cUniversity of California (retired)Endf2cPresent Home AddressEndf2cDermott E. CullenEndf2c1466 Hudson WayEndf2cLivermore, CA 94550Endf2cU.S.A.Endf2cTelephone925-443-1911E. MailRedCullen1@Comcast.netWebsiteRedCullen1.net/HOMEPAGE.NEW			
Written byEndf2cEndf2cDermott E. CullenEndf2cUniversity of California (retired)Endf2cPresent Home AddressEndf2cDermott E. CullenEndf2c1466 Hudson WayEndf2cLivermore, CA 94550Endf2cU.S.A.Endf2cTelephone925-443-1911E. MailRedCullen1@Comcast.netWebsiteRedCullen1.net/HOMEPAGE.NEWEndf2cEndf2cEndf2cEndf2c			
Written byEndf2cDermott E. CullenEndf2cUniversity of California (retired)Endf2cPresent Home AddressEndf2cDermott E. CullenEndf2c1466 Hudson WayEndf2cLivermore, CA 94550Endf2cU.S.A.Endf2cTelephone925-443-1911E. MailRedCullen1@Comcast.netWebsiteRedCullen1.net/HOMEPAGE.NEWEndf2cEndf2cEndf2cEndf2c		snould not be deleted.	
Image: Constraint of the second sec		Whitten h.	
Dermott E. Cullen Endf2c University of California (retired) Endf2c Present Home Address Endf2c Dermott E. Cullen Endf2c 1466 Hudson Way Endf2c Livermore, CA 94550 Endf2c U.S.A. Endf2c Telephone 925-443-1911 Endf2c E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c			
University of California (retired) Present Home Address		Dermett E. Cullen	
Present Home Address Endf2c Dermott E. Cullen Endf2c 1466 Hudson Way Endf2c Livermore, CA 94550 Endf2c U.S.A. Endf2c Telephone 925-443-1911 Endf2c E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c			
Dermott E. Cullen Endf2c 1466 Hudson Way Endf2c Livermore, CA 94550 Endf2c U.S.A. Endf2c Telephone 925-443-1911 Endf2c E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c			
1466 Hudson WayEndf2cLivermore, CA 94550Endf2cU.S.A.Endf2cTelephone925-443-1911Endf2cE. MailRedCullen1@Comcast.netEndf2cWebsiteRedCullen1.net/HOMEPAGE.NEWEndf2cEndf2cEndf2cEndf2c			
Livermore, CA 94550 Endf2c U.S.A. Endf2c Telephone 925-443-1911 Endf2c E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c			
U.S.A. Endf2c Telephone 925-443-1911 Endf2c E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c		-	
Telephone925-443-1911Endf2cE. MailRedCullen1@Comcast.netEndf2cWebsiteRedCullen1.net/HOMEPAGE.NEWEndf2cWebsiteRedCullen1.net/HOMEPAGE.NEWEndf2c		•	
E. Mail RedCullen1@Comcast.net Endf2c Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c			
Website RedCullen1.net/HOMEPAGE.NEW Endf2c Endf2c		-	
Endf2c			
			Endf2c